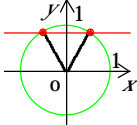
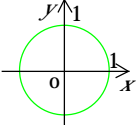
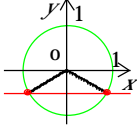
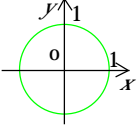
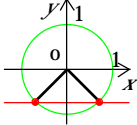
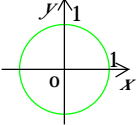
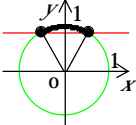
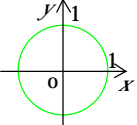
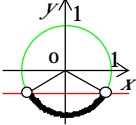
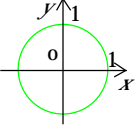
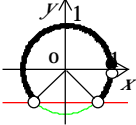
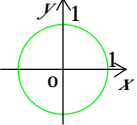


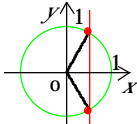
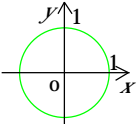
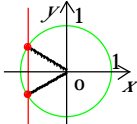
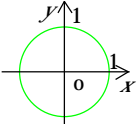
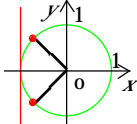
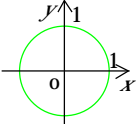
1. 次の等式を満たす の値を求めよ。(0° < 360°)
Find the value of that satisfies the following equation.

例題	問題
$\sin = \frac{\sqrt{3}}{2}$ 	$\sin = \frac{\sqrt{2}}{2}$ 
$= 60^\circ, 120^\circ$	
$\sin = -\frac{1}{2}$ 	$\sin = -\frac{\sqrt{3}}{2}$ 
$= 210^\circ, 330^\circ$	
$\sin = -\frac{\sqrt{2}}{2}$ 	$\sin = \frac{1}{2}$ 
$= 225^\circ, 315^\circ$	

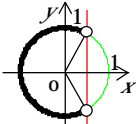
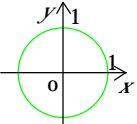
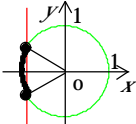
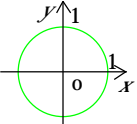
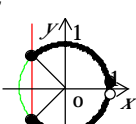
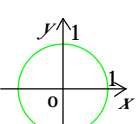
3. 次の不等式を満たす の範囲を求めよ。(0° < 360°)
Find the value of that satisfies the following inequality.

例題	問題
$\sin \geq \frac{\sqrt{3}}{2}$ 	$\sin \leq \frac{\sqrt{2}}{2}$ 
$60^\circ \leq \leq 120^\circ$	
$\sin < -\frac{1}{2}$ 	$\sin < -\frac{\sqrt{3}}{2}$ 
$210^\circ < \leq 330^\circ$	
$\sin > -\frac{\sqrt{2}}{2}$ 	$\sin < \frac{1}{2}$ 
$0^\circ \leq \leq 225^\circ$	
$315^\circ < \leq 360^\circ$	

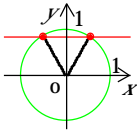
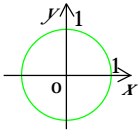
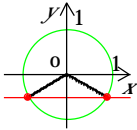
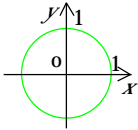
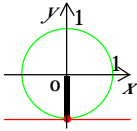
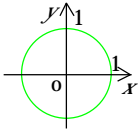
2. 次の等式を満たす の値を求めよ。(0° < 360°)
Find the value of that satisfies the following equation.

例題	問題
$\cos = \frac{1}{2}$ 	$\cos = \frac{\sqrt{2}}{2}$ 
$= 60^\circ, 300^\circ$	
$\cos = -\frac{\sqrt{3}}{2}$ 	$\cos = -\frac{1}{2}$ 
$= 150^\circ, 210^\circ$	
$\cos = -\frac{\sqrt{2}}{2}$ 	$\cos = \frac{\sqrt{3}}{2}$ 
$= 135^\circ, 225^\circ$	

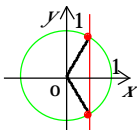
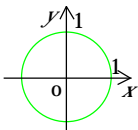
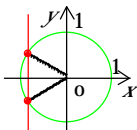
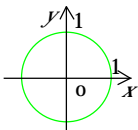
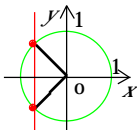
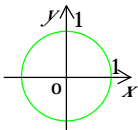
4. 次の不等式を満たす の範囲を求めよ。(0° < 360°)
Find the value of that satisfies the following inequality.

例題	問題
$\cos < \frac{1}{2}$ 	$\cos < \frac{\sqrt{2}}{2}$ 
$60^\circ < \leq 300^\circ$	
$\cos > -\frac{\sqrt{3}}{2}$ 	$\cos > -\frac{1}{2}$ 
$150^\circ < \leq 210^\circ$	
$\cos > -\frac{\sqrt{2}}{2}$ 	$\cos \geq \frac{\sqrt{3}}{2}$ 
$0^\circ \leq \leq 135^\circ$	
$225^\circ < \leq 360^\circ$	

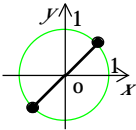
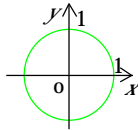
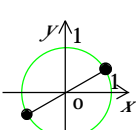
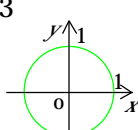
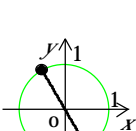
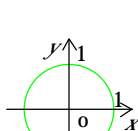
1. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\sin = \frac{\sqrt{3}}{2}$ (高さ)  $= 60^\circ, 120^\circ$	$\sin = \frac{\sqrt{2}}{2}$ 
$\sin = -\frac{1}{2}$  $= 210^\circ, 330^\circ$	$\sin = -\frac{\sqrt{3}}{2}$ 
$\sin = -1$  $= 270^\circ$	$\sin = 1$ 

2. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\cos = \frac{1}{2}$ (横)  $= 60^\circ, 300^\circ$	$\cos = \frac{\sqrt{2}}{2}$ 
$\cos = -\frac{\sqrt{3}}{2}$  $= 150^\circ, 210^\circ$	$\cos = -\frac{1}{2}$ 
$\cos = -\frac{\sqrt{2}}{2}$  $= 135^\circ, 225^\circ$	$\cos = \frac{\sqrt{3}}{2}$ 

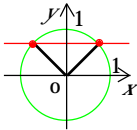
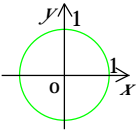
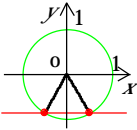
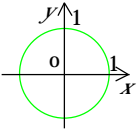
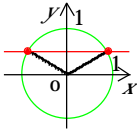
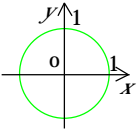
3. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\tan = 1$ (傾き)  $= 45^\circ, 225^\circ$	$\tan = 0$ 
$\tan = \frac{1}{\sqrt{3}}$  $= 30^\circ, 210^\circ$	$\tan = -\frac{1}{\sqrt{3}}$ 
$\tan = -\sqrt{3}$  $= 300^\circ, 120^\circ$	$\tan = \sqrt{3}$ 

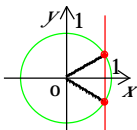
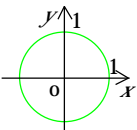
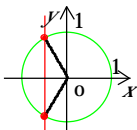
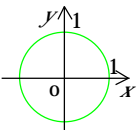
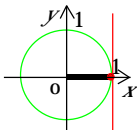
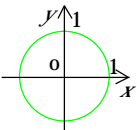
4. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\sin(+ 30^\circ) = \frac{\sqrt{3}}{2}$ $+ 30^\circ = 60^\circ$ または $+ 30^\circ = 120^\circ$ よって, $= 30^\circ, 90^\circ$	$\sin(+ 20^\circ) = \frac{\sqrt{2}}{2}$
$\sin(+ 90^\circ) = \frac{\sqrt{3}}{2}$ $+ 90^\circ = 60^\circ$ は不適 $+ 90^\circ = 120^\circ$ または $+ 90^\circ = 420^\circ$ よって, $= 30^\circ, 330^\circ$	$\sin(+ 60^\circ) = \frac{\sqrt{2}}{2}$

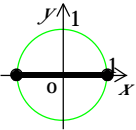
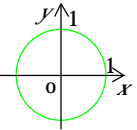
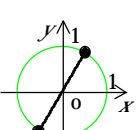
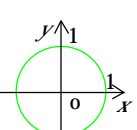
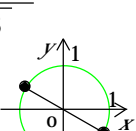
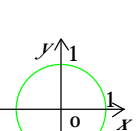
1. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\sin = \frac{\sqrt{2}}{2}$ (高さ)  $= 45^\circ, 135^\circ$	$\sin = \frac{\sqrt{3}}{2}$ 
$\sin = -\frac{\sqrt{3}}{2}$  $= 210^\circ, 330^\circ$	$\sin = -\frac{\sqrt{2}}{2}$ 
$\sin = \frac{1}{2}$  $= 30^\circ, 150^\circ$	$\sin = -\frac{1}{2}$ 

2. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\cos = \frac{\sqrt{3}}{2}$ (横)  $= 30^\circ, 330^\circ$	$\cos = \frac{\sqrt{2}}{2}$ 
$\cos = -\frac{1}{2}$  $= 120^\circ, 240^\circ$	$\cos = \frac{1}{2}$ 
$\cos = 1$  $= 0^\circ$	$\cos = -1$ 

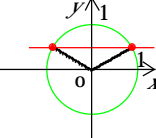
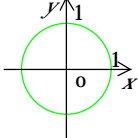
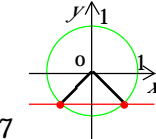
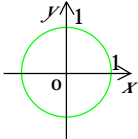
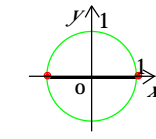
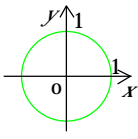
3. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\tan = 0$ (傾き)  $= 0^\circ, 180^\circ$	$\tan = -1$ 
$\tan = \sqrt{3}$  $= 60^\circ, 240^\circ$	$\tan = -\sqrt{3}$ 
$\tan = -\frac{1}{\sqrt{3}}$  $= 150^\circ, 330^\circ$	$\tan = \frac{1}{\sqrt{3}}$ 

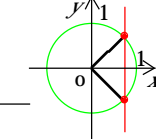
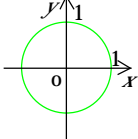
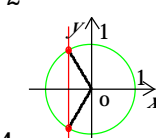
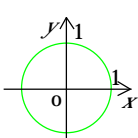
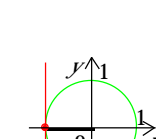
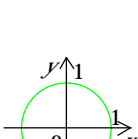
4. 次の等式を満たす の値を求めよ。(0° < 360°)

例題	問題
$\cos(-60^\circ) = -\frac{1}{2}$ $-60^\circ = 120^\circ$ または $-60^\circ = 240^\circ$ よって, $= 120^\circ, 240^\circ$	$\cos(-30^\circ) = \frac{\sqrt{3}}{2}$
$\cos(-90^\circ) = \frac{\sqrt{3}}{2}$ $-90^\circ = 270^\circ$ または $-90^\circ = -30^\circ$ よって, $= 270^\circ, 330^\circ$	$\cos(60^\circ) = \frac{\sqrt{2}}{2}$

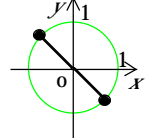
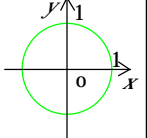
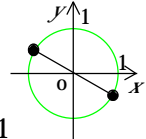
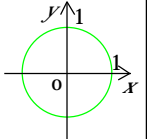
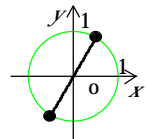
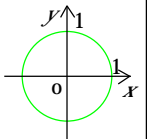
1. 次の等式を満たす の値を求めよ。(0 < 2)

れいだい 例題	もんだい 問題
$\sin = -\frac{1}{2}$ (たか (高さ))  $= \frac{5}{6}, \frac{7}{6}$	$\sin = -\frac{\sqrt{3}}{2}$ 
$\sin = -\frac{\sqrt{2}}{2}$  $= \frac{5}{4}, \frac{7}{4}$	$\sin = \frac{\sqrt{2}}{2}$ 
$\sin = 0$  $= 0,$	$\sin = -1$ 

2. 次の等式を満たす の値を求めよ。(0 < 2)

れいだい 例題	もんだい 問題
$\cos = \frac{\sqrt{2}}{2}$ (よこ (横))  $= \frac{1}{4}, \frac{7}{4}$	$\cos = \frac{1}{2}$ 
$\cos = -\frac{1}{2}$  $= \frac{2}{3}, \frac{4}{3}$	$\cos = \frac{\sqrt{3}}{2}$ 
$\cos = -1$  $=$	$\cos = 1$ 

3. 次の等式を満たす の値を求めよ。(0 < 2)

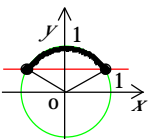
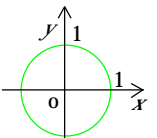
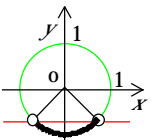
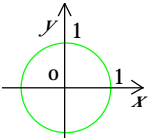
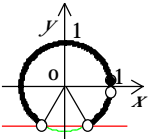
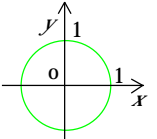
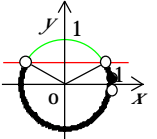
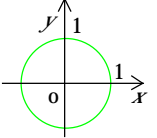
れいだい 例題	もんだい 問題
$\tan = -1$ (かたむ (傾き))  $= \frac{3}{4}, \frac{7}{4}$	$\tan = 1$ 
$\tan = -\frac{1}{\sqrt{3}}$  $= \frac{5}{6}, \frac{7}{6}$	$\tan = -\frac{1}{\sqrt{3}}$ 
$\tan = \sqrt{3}$  $= \frac{1}{3}, \frac{4}{3}$	$\tan = -\sqrt{3}$ 

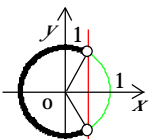
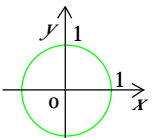
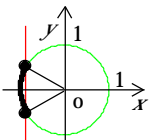
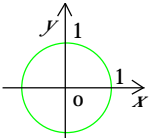
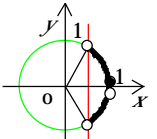
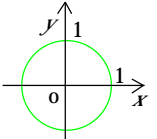
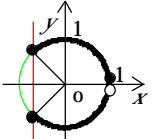
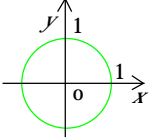
4. 次の等式を満たす の値を求めよ。(0 < 2)

れいだい 例題	もんだい 問題
$\sin\left(+ \frac{\pi}{6} \right) = \frac{\sqrt{3}}{2}$ $+ \frac{\pi}{6} = \frac{\pi}{3}$ または $+ \frac{\pi}{6} = \frac{2\pi}{3}$ よって, $= \frac{\pi}{6}, \frac{5\pi}{6}$	$\sin\left(+ \frac{\pi}{6} \right) = -\frac{1}{2}$
$\sin\left(+ \frac{\pi}{2} \right) = \frac{\sqrt{2}}{2}$ $\frac{\pi}{2} + \frac{\pi}{2} < \frac{5\pi}{2}$ $+ \frac{\pi}{2} = \frac{3\pi}{4}$ または $+ \frac{\pi}{2} = \frac{9\pi}{4}$ よって $= \frac{3\pi}{4}, \frac{7\pi}{4}$	$\sin\left(-\frac{\pi}{2} \right) = \frac{1}{2}$

1. 次の不等式を満たす の範囲を求めよ。(0° < 360°)

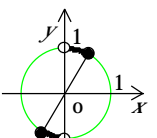
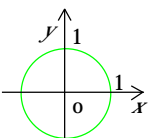
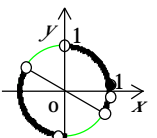
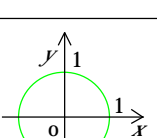
3. 次の不等式を満たす の範囲を求めよ。(0° < 360°)

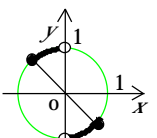
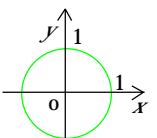
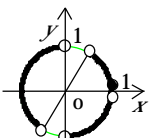
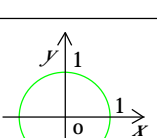
例題	\sin	$\frac{1}{2}$	
		30°	150°
問題	\sin	$\frac{\sqrt{3}}{2}$	
例題	\sin	$< -\frac{\sqrt{2}}{2}$	
		210°	330°
問題	\sin	$< -\frac{1}{2}$	
例題	\sin	$> -\frac{\sqrt{3}}{2}$	
		0°	240°, 300°
問題	\sin	$> -\frac{\sqrt{2}}{2}$	
例題	\sin	$< \frac{1}{2}$	
		0°	30°, 150°
問題	\sin	$< \frac{\sqrt{2}}{2}$	

例題	\cos	$< \frac{1}{2}$	
		30°	150°
問題	\cos	$< \frac{\sqrt{2}}{2}$	
例題	\cos	$-\frac{\sqrt{3}}{2}$	
		150°	210°
問題	\cos	$-\frac{1}{2}$	
例題	\cos	$> \frac{1}{2}$	
		0°	60°, 300°
問題	\cos	$> \frac{\sqrt{2}}{2}$	
例題	\cos	$-\frac{\sqrt{2}}{2}$	
		0°	135°, 225°
問題	\cos	$-\frac{\sqrt{3}}{2}$	

2. 次の不等式を満たす の範囲を求めよ。(0° < 360°)

4. 次の不等式を満たす の範囲を求めよ。(0° < 360°)

例題	\tan	$\sqrt{3}$	
		60°	240°
問題	\tan	1	
例題	\tan	$> -\frac{1}{\sqrt{3}}$	
		0°	90°, 150°
問題	\tan	$> -\sqrt{3}$	

例題	\tan	-1	
		90°	135°, 270°
問題	\tan	$-\frac{1}{\sqrt{3}}$	
例題	\tan	$< \sqrt{3}$	
		0°	60°, 90°
問題	\tan	$< \frac{1}{\sqrt{3}}$	

1. 次の不等式を満たすの範囲を求めよ。(0° < 360°)

3. 次の不等式を満たすの範囲を求めよ。(0° < 360°)

例題

$\sin > \frac{\sqrt{2}}{2}$
 $45^\circ < < 135^\circ$

問題

$\sin > \frac{1}{2}$

例題

$\sin < -\frac{\sqrt{3}}{2}$
 $240^\circ < < 300^\circ$

問題

$\sin < -\frac{\sqrt{2}}{2}$

例題

$\sin < -\frac{\sqrt{2}}{2}$
 $0^\circ < 225^\circ, 315^\circ < 360^\circ$

問題

$\sin > -\frac{1}{2}$

例題

$\sin < \frac{\sqrt{2}}{2}$
 $0^\circ < 30^\circ, 150^\circ < 360^\circ$

問題

$\sin < \frac{\sqrt{3}}{2}$

例題

$\cos < \frac{\sqrt{3}}{2}$
 $30^\circ < < 150^\circ$

問題

$\cos < \frac{1}{2}$

例題

$\cos < -\frac{\sqrt{2}}{2}$
 $150^\circ < < 210^\circ$

問題

$\cos < -\frac{\sqrt{3}}{2}$

例題

$\cos < \frac{\sqrt{2}}{2}$
 $0^\circ < 60^\circ, 300^\circ < 360^\circ$

問題

$\cos < \frac{1}{2}$

例題

$\cos > -\frac{\sqrt{3}}{2}$
 $0^\circ < 120^\circ, 240^\circ < 360^\circ$

問題

$\cos > -\frac{\sqrt{2}}{2}$

2. 次の不等式を満たすの範囲を求めよ。(0° < 360°)

4. 次の不等式を満たすの範囲を求めよ。(0° < 360°)

例題

$\tan > 1$
 $45^\circ < < 90^\circ, 135^\circ < < 270^\circ$

問題

$\tan > \frac{1}{\sqrt{3}}$

例題

$\tan < -\sqrt{3}$
 $0^\circ < 90^\circ, 120^\circ < 270^\circ$
 $300^\circ < < 360^\circ$

問題

$\tan < -1$

例題

$\tan < -\frac{1}{\sqrt{3}}$
 $90^\circ < < 150^\circ, 270^\circ < < 330^\circ$

問題

$\tan < -\sqrt{3}$

例題

$\tan < 1$
 $0^\circ < 45^\circ, 90^\circ < 225^\circ$
 $270^\circ < < 360^\circ$

問題

$\tan < \sqrt{3}$

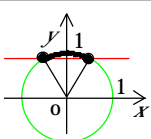
1. 次の不等式を満たす の範囲を求めよ。(0 < 2)

れいだい

例題

$\sin \frac{\sqrt{3}}{2}$

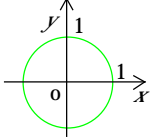
$\frac{2}{3}$



もんだい

問題

$\sin \frac{\sqrt{2}}{2}$

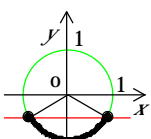


れいだい

例題

$\sin < -\frac{1}{2}$

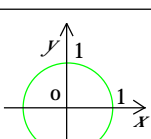
$\frac{7}{6} < < \frac{11}{6}$



もんだい

問題

$\sin < 0$

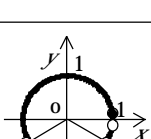


れいだい

例題

$\sin > -\frac{1}{2}$

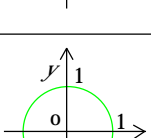
$0 < \frac{7}{6}, \frac{11}{6} < < 2$



もんだい

問題

$\sin > -\frac{\sqrt{3}}{2}$

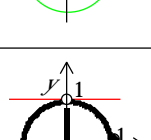


れいだい

例題

$\sin < 1$

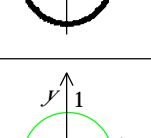
$0 < \frac{3}{2}, \frac{5}{2} < < 2$



もんだい

問題

$\sin < \frac{1}{2}$



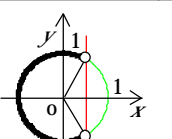
3. 次の不等式を満たす の範囲を求めよ。(0 < 2)

れいだい

例題

$\cos < \frac{1}{2}$

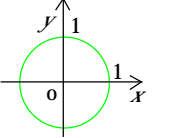
$\frac{5}{3}$



もんだい

問題

$\cos < \frac{\sqrt{2}}{2}$

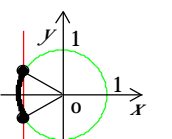


れいだい

例題

$\cos - \frac{\sqrt{3}}{2}$

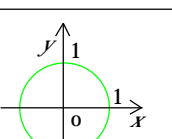
$\frac{5}{6} < \frac{7}{6}$



もんだい

問題

$\cos - \frac{1}{2}$

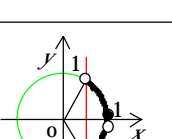


れいだい

例題

$\cos > \frac{1}{2}$

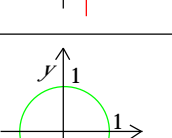
$0 < \frac{3}{3}, \frac{5}{3} < < 2$



もんだい

問題

$\cos > \frac{\sqrt{2}}{2}$

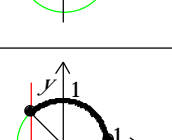


れいだい

例題

$\cos - \frac{\sqrt{2}}{2}$

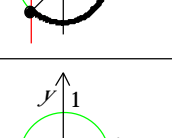
$0 < \frac{3}{4}, \frac{5}{4} < < 2$



もんだい

問題

$\cos - \frac{\sqrt{3}}{2}$



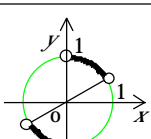
2. 次の不等式を満たす の範囲を求めよ。(0 < 2)

れいだい

例題

$\tan > \frac{1}{\sqrt{3}}$

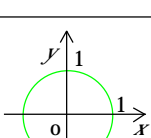
$\frac{6}{6} < < \frac{7}{2}, \frac{7}{6} < < \frac{3}{2}$



もんだい

問題

$\tan > \sqrt{3}$

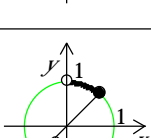


れいだい

例題

$\tan 1$

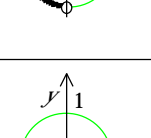
$\frac{4}{4} < \frac{5}{2}, \frac{5}{4} < \frac{3}{2}$



もんだい

問題

$\tan - 1$



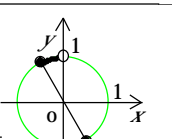
4. 次の不等式を満たす の範囲を求めよ。(0 < 2)

れいだい

例題

$\tan - \sqrt{3}$

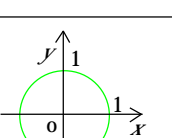
$\frac{2}{2} < \frac{2}{3}, \frac{3}{2} < \frac{5}{3}$



もんだい

問題

$\tan - 1$

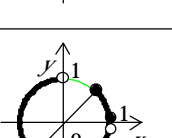


れいだい

例題

$\tan 1$

$0 < \frac{3}{2} < \frac{4}{4}, \frac{5}{2} < \frac{5}{4}$



もんだい

問題

$\tan \sqrt{3}$

