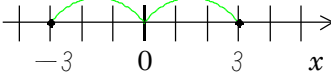
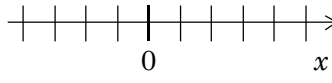
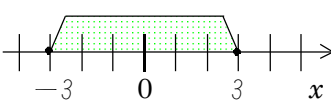
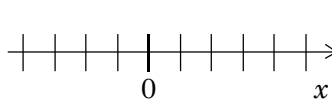
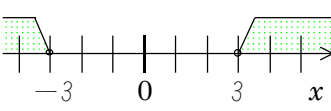
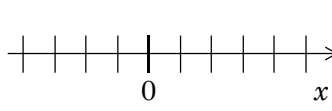
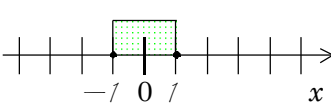
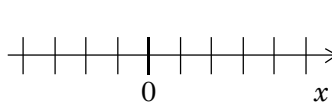
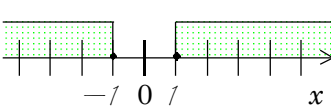
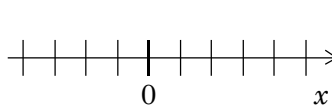
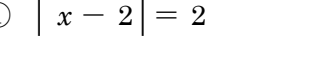
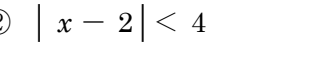


1. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.



例題	問題
① $ x = 3$ $x = \pm 3$ 	① $ x = 4$ 
② $ x < 3$ $-3 < x < 3$ 	② $ x < 2$ 
③ $ x > 3$ $x < -3, 3 < x$ 	③ $ x > 2$ 
④ $ x \leq 1$ $-1 \leq x \leq 1$ 	④ $ x \leq 4$ 
⑤ $ x \geq 1$ $x \leq -1, 1 \leq x$ 	⑤ $ x \geq 3$ 

2. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

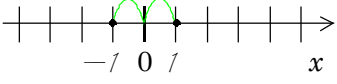
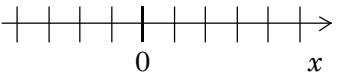
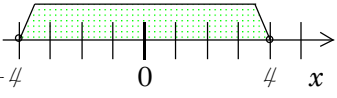
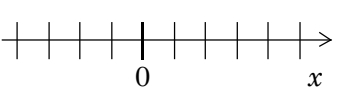
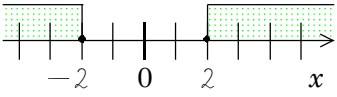
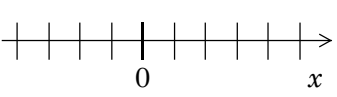
例題	問題
① $ x - 1 = 3$ $x - 1 = \pm 3$ $x = 1 \pm 3$ $x = -2, 4$	① $ x - 2 = 2$ 
② $ x - 3 < 2$ $-2 < x - 3 < 2$ $-2 + 3 < x < 2 + 3$ $1 < x < 5$	② $ x - 2 < 4$ 

3. 次の方程式，不等式の解を場合分けで求めよ。
Find solutions to the following equations and inequalities by dividing them into cases.

$$\left(\begin{array}{ll} A \geq 0 \text{ のとき,} & |A| = A \\ A < 0 \text{ のとき,} & |A| = -A \end{array} \right)$$

例題	問題
① $ x - 1 = 3$ [1] $x - 1 \geq 0$ のとき $(x \geq 1)$ $ x - 1 = x - 1$ $x - 1 = 3$ $x = 4$ [2] $x - 1 < 0$ のとき $(x < 1)$ $ x - 1 = -(x - 1)$ $-(x - 1) = 3$ $x - 1 = -3$ $x = -2$ [1], [2]より $x = -2, 4$	① $ x - 5 = 2$ 
② $ x - 3 < 2$ [1] $x - 3 \geq 0$ のとき $(x \geq 3)$ $ x - 3 = x - 3$ $x - 3 < 2$ $x < 5$ $\therefore 3 \leq x < 5$ [2] $x - 3 < 0$ のとき $(x < 3)$ $ x - 3 = -(x - 3)$ $-(x - 3) < 2$ $x - 3 > -2$ $x > 1$ $\therefore 1 < x < 3$ [1], [2]より $1 < x < 5$	② $ x - 4 < 2$ 

1. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

例題	問題
$ x = 1$ $x = \pm 1$ 	$ x = 2$ 
$ x < 4$ $-4 < x < 4$ 	$ x \leq 3$ 
$ x \geq 2$ $x \leq -2, 2 \leq x$ 	$ x > 3$ 

2. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

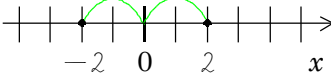
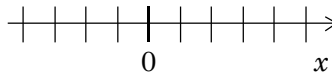
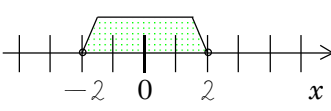
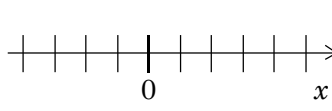
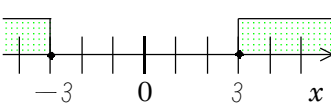
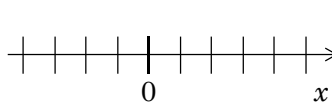
例題	問題
① $ x - 3 = 5$ $x - 3 = \pm 5$ $x = 3 \pm 5$ $x = -2, 8$	① $ x - 1 = 4$
② $ x + 2 = 6$ $x + 2 = \pm 6$ $x = -2 \pm 6$ $x = -8, 4$	② $ x + 5 = 3$
③ $ x + 1 \leq 3$ $-3 \leq x + 1 \leq 3$ $-3 - 1 \leq x \leq 3 - 1$ $-4 \leq x \leq 2$	③ $ x + 4 < 2$
④ $ x - 2 > 4$ $x - 2 < -4, 4 < x - 2$ $x < -4 + 2, 4 + 2 < x$ $x < -2, 6 < x$	④ $ x - 3 \geq 1$

3. 次の方程式，不等式の解を場合分けで求めよ。
Find solutions to the following equations and inequalities by dividing them into cases.

$\left(\begin{array}{l} A \geq 0 \text{ のとき, } |A| = A \\ A < 0 \text{ のとき, } |A| = -A \end{array} \right)$

例題	問題
① $ x + 2 = 6$ [1] $x + 2 \geq 0$ のとき $(x \geq -2)$ $ x + 2 = x + 2$ $x + 2 = 6$ $x = 4$ [2] $x + 2 < 0$ のとき $(x < -2)$ $ x + 2 = -(x + 2)$ $-(x + 2) = 6$ $x + 2 = -6$ $x = -8$ [1], [2]より $x = -8, 4$	① $ x + 5 = 3$
② $ x - 2 > 4$ [1] $x - 2 \geq 0$ のとき $(x \geq 2)$ $ x - 2 = x - 2$ $x - 2 > 4$ $x > 6$ $\therefore x > 6$ [2] $x - 2 < 0$ のとき $(x < 2)$ $ x - 2 = -(x - 2)$ $-(x - 2) > 4$ $x - 2 < -4$ $x < -2$ $\therefore x < -2$ [1], [2]より $x < -2, 6 < x$	② $ x - 3 > 2$

1. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

例題	問題
$ x = 2$ $x = \pm 2$ 	$ x = 1$ 
$ x < 2$ $-2 < x < 2$ 	$ x \leq 4$ 
$ x \geq 3$ $x \leq -3, 3 \leq x$ 	$ x > 2$ 

2. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

例題	問題
① $ x - 2 = 3$ $x - 2 = \pm 3$ $x = 2 \pm 3$ $x = -1, 5$	① $ x - 1 = 2$
② $ x + 2 = 4$ $x + 2 = \pm 4$ $x = -2 \pm 4$ $x = -6, 2$	② $ x + 3 = 5$
③ $ x - 1 \leq 3$ $-3 \leq x - 1 \leq 3$ $-3 + 1 \leq x \leq 3 + 1$ $-2 \leq x \leq 4$	③ $ x - 4 < 2$
④ $ x + 2 > 4$ $x + 2 < -4, 4 < x + 2$ $x < -4 - 2, 4 - 2 < x$ $x < -6, 2 < x$	④ $ x + 3 \geq 5$

3. 次の方程式，不等式の解を場合分けで求めよ。
Find solutions to the following equations and inequalities by dividing them into cases.

$\left(\begin{array}{l} A \geq 0 \text{ のとき, } |A| = A \\ A < 0 \text{ のとき, } |A| = -A \end{array} \right)$

例題	問題
① $ x - 2 = 3$ [1] $x - 2 \geq 0$ のとき $(x \geq 2)$ $ x - 2 = x - 2$ $x - 2 = 3$ $x = 5$ [2] $x - 2 < 0$ のとき $(x < 2)$ $ x - 2 = -(x - 2)$ $-(x - 2) = 3$ $x - 2 = -3$ $x = -1$ [1], [2]より $x = -1, 5$	① $ x - 1 = 2$
② $ x + 2 > 4$ [1] $x + 2 \geq 0$ のとき $(x \geq -2)$ $ x + 2 = x + 2$ $x + 2 > 4$ $x > 2$ $\therefore x > 2$ [2] $x + 2 < 0$ のとき $(x < -2)$ $ x + 2 = -(x + 2)$ $-(x + 2) > 4$ $x + 2 < -4$ $x < -6$ $\therefore x < -6$ [1], [2]より $x < -6, 2 < x$	② $ x + 3 > 5$

1. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

例題	問題
$ x = 4$ $x = \pm 4$ 	$ x = 3$
$ x < 4$ $-4 < x < 4$ 	$ x \leq 3$
$ x \geq 4$ $x \leq -4, 4 \leq x$ 	$ x > 3$

2. 次の方程式，不等式の解を求めよ。
Find solutions to the following equations and inequalities.

例題	問題
① $ x - 3 = 2$ $x - 3 = \pm 2$ $x = 3 \pm 2$ $x = 1, 5$	① $ x - 2 = 1$
② $ x + 1 = 3$ $x + 1 = \pm 3$ $x = -1 \pm 3$ $x = -4, 2$	② $ x + 2 = 4$
③ $ x - 2 \leq 4$ $-4 \leq x - 2 \leq 4$ $-4 + 2 \leq x \leq 4 + 2$ $-2 \leq x \leq 6$	③ $ x - 1 < 3$
④ $ x + 3 > 1$ $x + 3 < -1, 1 < x + 3$ $x < -1 - 3, 1 - 3 < x$ $x < -4, -2 < x$	④ $ x + 4 \geq 2$

3. 次の方程式，不等式の解を場合分けで求めよ。
Find solutions to the following equations and inequalities by dividing them into cases.

$\left(\begin{array}{l} A \geq 0 \text{ のとき, } |A| = A \\ A < 0 \text{ のとき, } |A| = -A \end{array} \right)$

例題	問題
① $ x + 1 = 3$ [1] $x + 1 \geq 0$ のとき $(x \geq -1)$ $ x + 1 = x + 1$ $x + 1 = 3$ $x = 2$ [2] $x + 1 < 0$ のとき $(x < -1)$ $ x + 1 = -(x + 1)$ $-(x + 1) = 3$ $x + 1 = -3$ $x = -4$ [1], [2]より $x = -4, 2$	① $ x + 2 = 4$
② $ x - 2 \leq 4$ [1] $x - 2 \geq 0$ のとき $(x \geq 2)$ $ x - 2 = x - 2$ $x - 2 \leq 4$ $x \leq 6$ $\therefore 2 \leq x \leq 6$ [2] $x - 2 < 0$ のとき $(x < 2)$ $ x - 2 = -(x - 2)$ $-(x - 2) \leq 4$ $x - 2 \geq -4$ $x \geq -2$ $\therefore -2 \leq x < 2$ [1], [2]より $-2 \leq x \leq 6$	② $ x - 1 < 3$