

領域の求め方

$y > f(x)$... $y = f(x)$ の上側

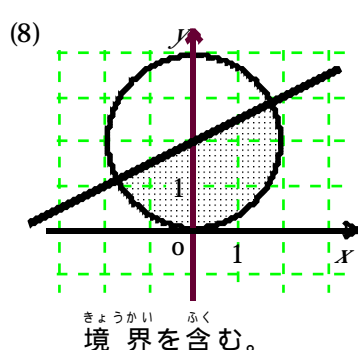
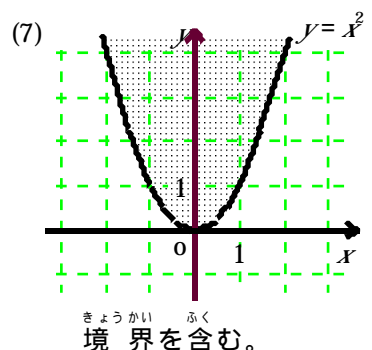
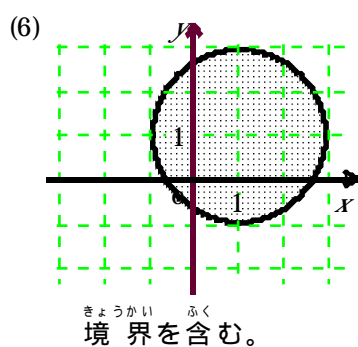
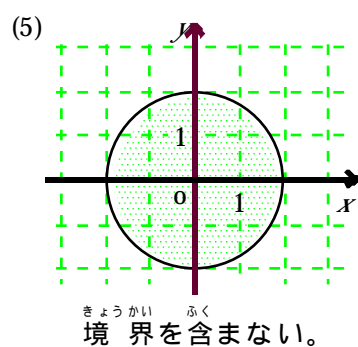
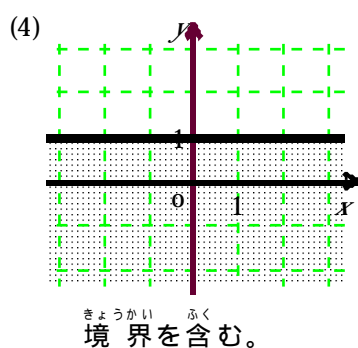
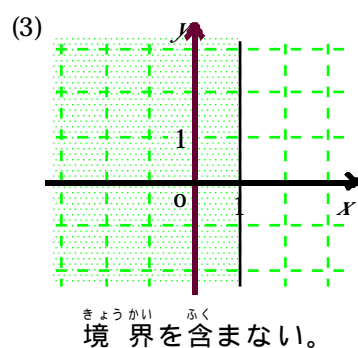
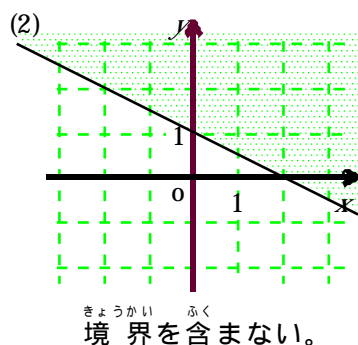
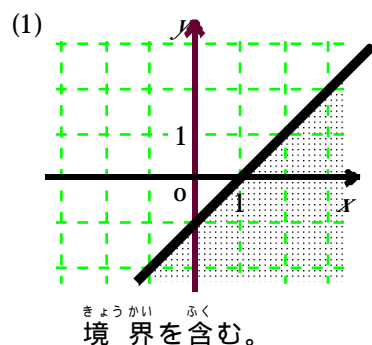
$y < f(x)$... $y = f(x)$ の下側

$x^2 + y^2 < r^2$... 円の内側

$x^2 + y^2 > r^2$... 円の外側

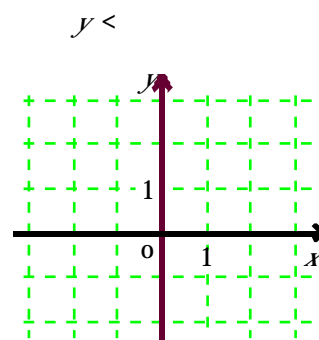
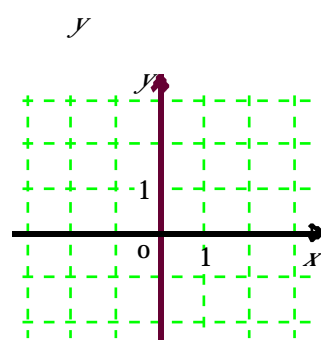
不等号に = を含む場合(,)は, 境界を含む。

1. 次の領域を表す不等式を書きなさい。



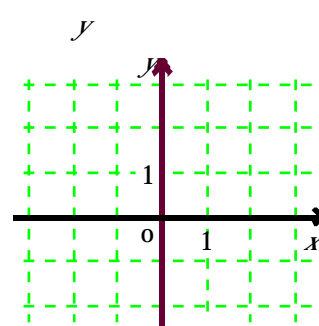
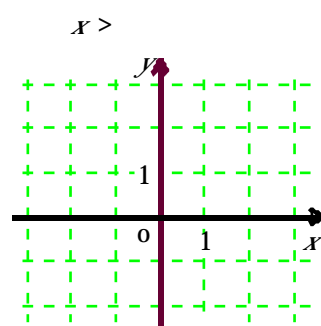
2. 次の不等式の表す領域を図示せよ。

(1) $2x + y - 1 \geq 0$ (2) $x - 2y + 2 > 0$



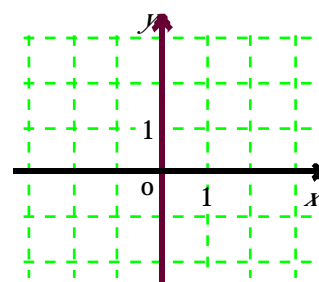
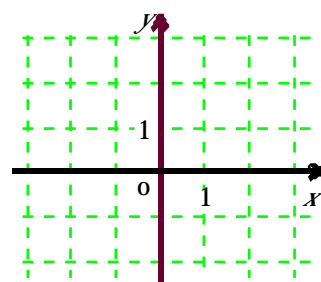
(3) $x + 1 > 0$

(4) $y - 2 \leq 0$



(5) $x^2 + y^2 > 2^2$

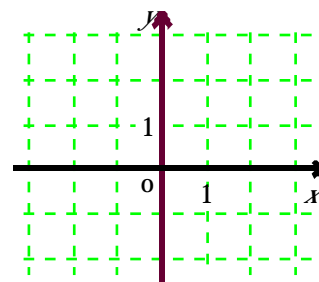
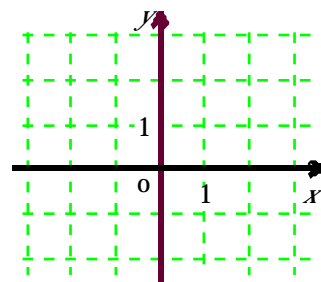
(6) $(x - 1)^2 + y^2 \leq 1^2$



3. 次の連立不等式の表す領域を図示せよ。

(1) $\begin{cases} y - 2x < 0 \\ y + 2x > 0 \end{cases}$

(2) $\begin{cases} y - 2x > 0 \\ y + 2x < 0 \end{cases}$



(3) $(y - 2x)(y + 2x) < 0$

(4) $(y - 2x)(y + 2x) > 0$

