

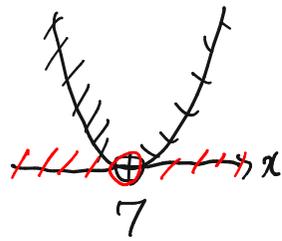
1 次の2次不等式を解け。

(1) $x^2 - 14x + 49 > 0$

$x^2 - 14x + 49 = 0$

$(x - 7)^2 = 0$

$x = 7$



$x = 7$ 以外のすべての実数

2 次の2次不等式を解け。

(1) $(x-1)^2 > 0$

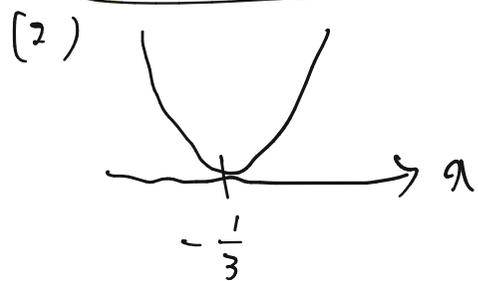
(2) $(3x+1)^2 < 0$

(3) $x^2 + 4x + 4 \geq 0$

(4) $x^2 - 8x + 16 \leq 0$



$x = 1$ 以外のすべての実数



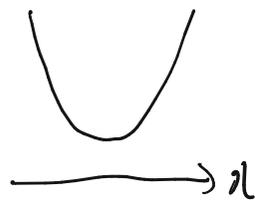
解なし

(2) $x^2 - 6x + 10 \leq 0$

$x^2 - 6x + 10 = 0$

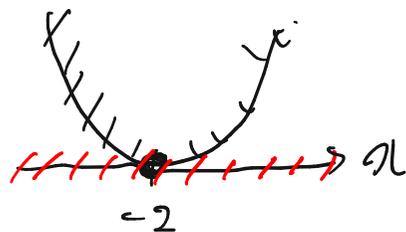
判別式 $b^2/4$ での

$b^2/4 = 9 - 10 < 0$



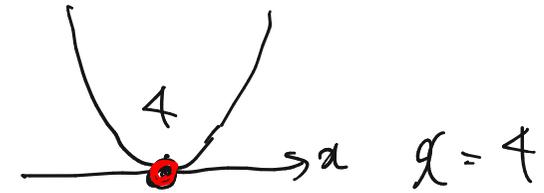
解なし

(3) $(x+2)^2 \geq 0$



すべての実数

(4) $(x-4)^2 \leq 0$



$x = 4$

グラフがx軸に接している点が判断に使う!!

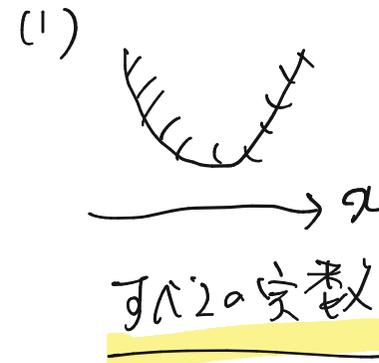
3 次の2次不等式を解け。

(1) $(x-2)^2 + 1 > 0$

(2) $x^2 + 4x + 6 < 0$

(3) $2x^2 - 4x + 5 \geq 0$

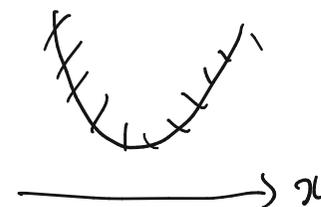
(4) $3x^2 + 6x + 4 \leq 0$



(2) $(x+2)^2 - 4 + 6 < 0$
 $(x+2)^2 + 2 < 0$

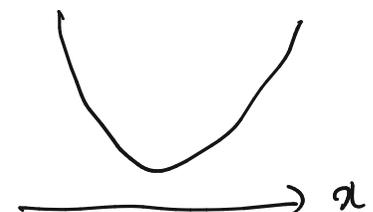


(3) $2(x^2 - 2x) + 5 \geq 0$
 $2\{(x-1)^2 - 1\} + 5 \geq 0$
 $2(x-1)^2 + 3 \geq 0$



すべての実数

(4) $3(x^2 + 2x) + 4 \leq 0$
 $3\{(x+1)^2 - 1\} + 4 \leq 0$
 $3(x+1)^2 + 1 \leq 0$



解なし

4) 次の2次不等式を解け。

(1) $7x - 13 - x^2 \leq 0$

(4) $6(x^2 - 1) > 5x$

(2) $12(x - 3) < x^2$

(5) $3x^2 + x \geq 2x^2 + 1$

(3) $-x(3x - 4) > 7$

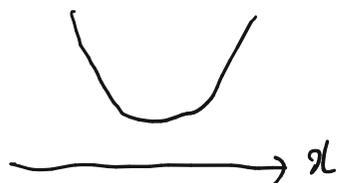
(6) $x^2 + 2\sqrt{6}x \leq -6$

(1) $x^2 - 7x + 13 \geq 0$

$x^2 - 7x + 13 = 0$ の

判別式 D を求め

$D = 49 - 52 < 0$



判別式

(3) $-3x^2 + 4x > 7$

$3x^2 - 4x + 7 < 0$

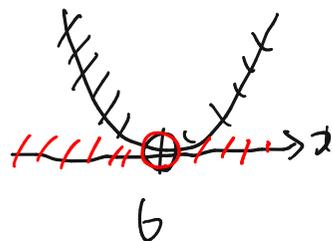
$3x^2 - 4x + 7 = 0$ の

判別式 $D/4$ を求め

$D/4 = 4 - 21 < 0$

(2) $x^2 - 12x + 36 > 0$

$(x - 6)^2 > 0$



$x = 6$ 以外の任意の実数



解なし

(4) $6x^2 - 6 > 5x$

$6x^2 - 5x - 6 > 0$

$(3x+2)(2x-3) > 0$

$x < -\frac{2}{3}, \frac{3}{2} < x$

(5) $x^2 + x - 1 \geq 0$

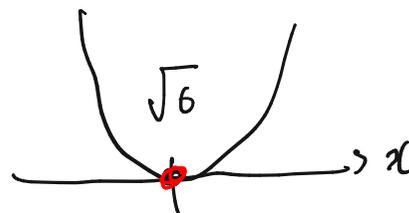
$x^2 + x - 1 = 0$ を求め

$x = \frac{-1 \pm \sqrt{1+4}}{2} = \frac{-1 \pm \sqrt{5}}{2}$

$x \leq \frac{-1-\sqrt{5}}{2}, \frac{-1+\sqrt{5}}{2} \leq x$

(6) $x^2 + 2\sqrt{6}x + 6 \leq 0$

$(x + \sqrt{6})^2 \leq 0$



$x = -\sqrt{6}$

<今日のふりかえり>

ケラッて 1x-ジ 33 = 20 丈 10!!