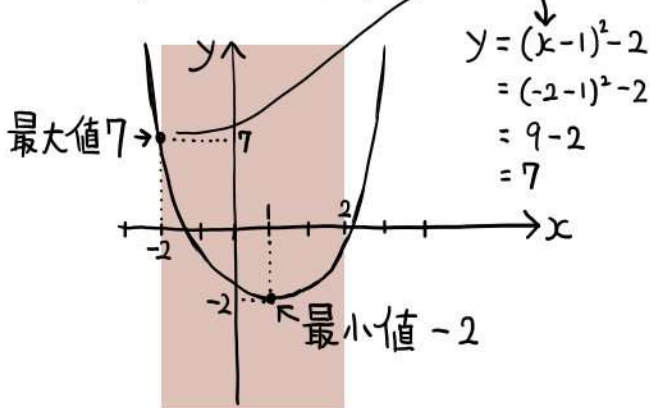


次の二次関数に最大値、最小値があればそれを求めよ。

(1) $y = (x-1)^2 - 2$ ($-2 \leq x \leq 2$)

頂点の座標 (1, -2)

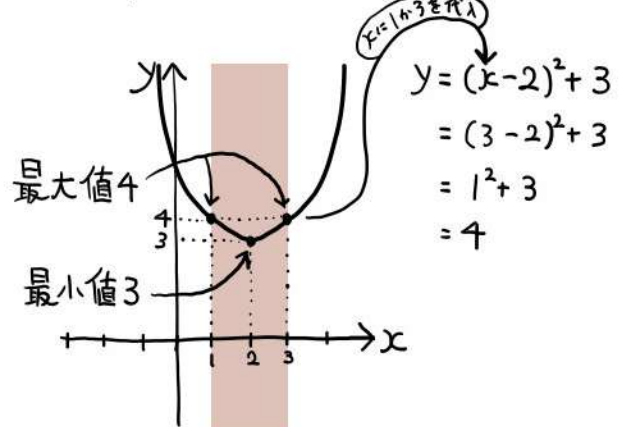
下に凸の \cup (xに-2を代入)



(4) $y = (x-2)^2 + 3$ ($1 \leq x \leq 3$)

頂点の座標 (2, 3)

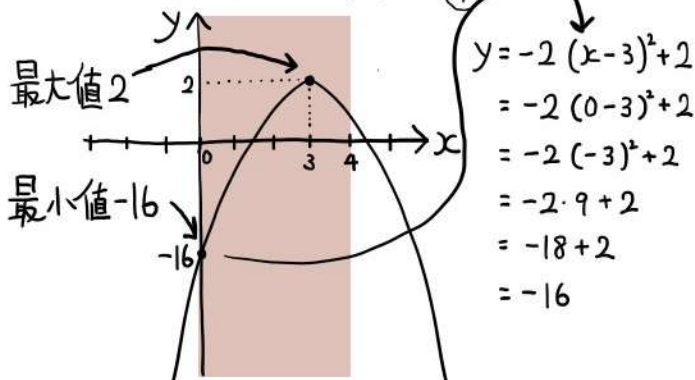
下に凸の \cup (xに1を代入)



(2) $y = -2(x-3)^2 + 2$ ($0 \leq x \leq 4$)

頂点の座標 (3, 2)

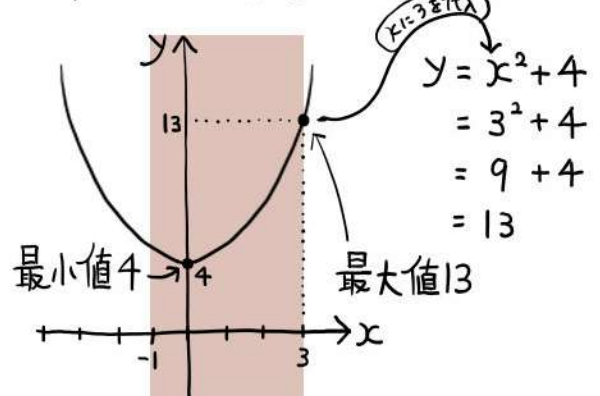
上に凸の \cap (xに0を代入)



(5) $y = x^2 + 4$ ($-1 \leq x \leq 3$)

頂点の座標 (0, 4)

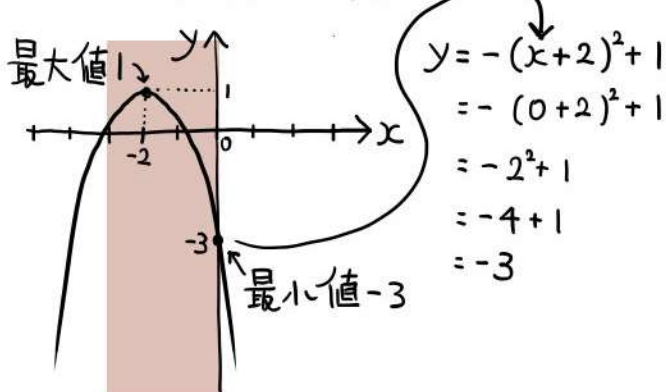
下に凸の \cup (xに3を代入)



(3) $y = -(x+2)^2 + 1$ ($-3 \leq x \leq 0$)

頂点の座標 (-2, 1)

上に凸の \cap (xに0を代入)



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

頂点の座標 (0, -1)

上に凸の \cap (xに-2を代入)

