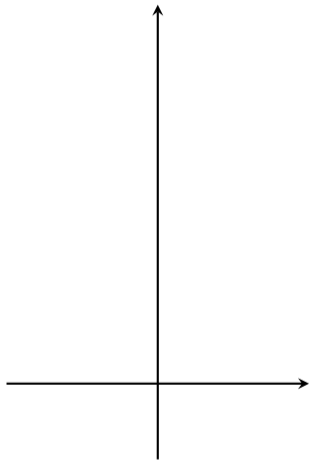
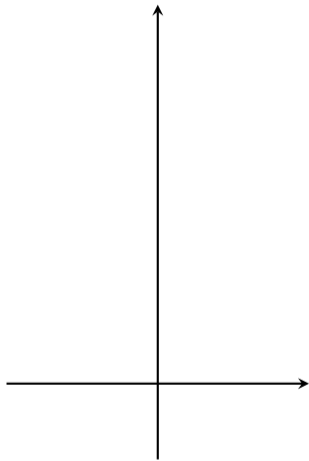


$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$  ? #37 その 7

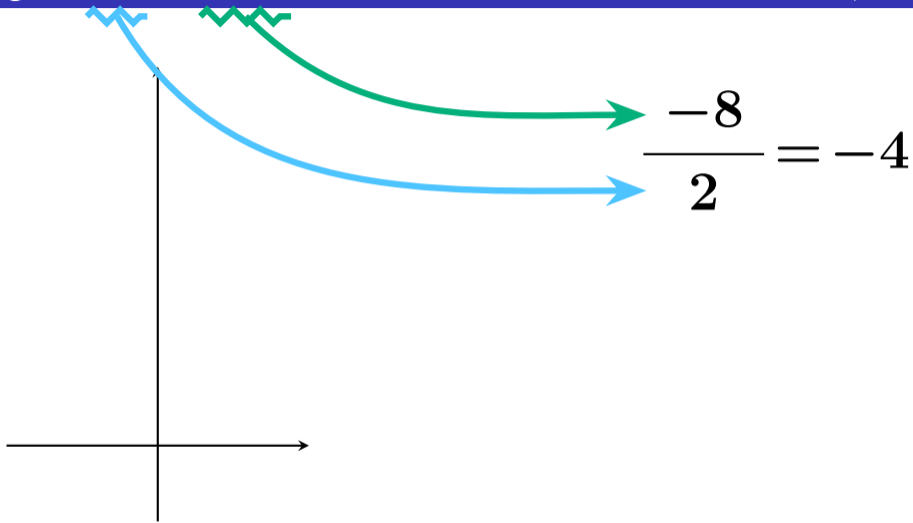


$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$  ? #37 その 7

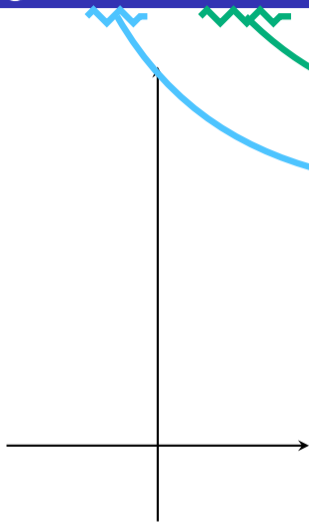


まず頂点の  $x$  座標を計算する

$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$  ? #37 その 7



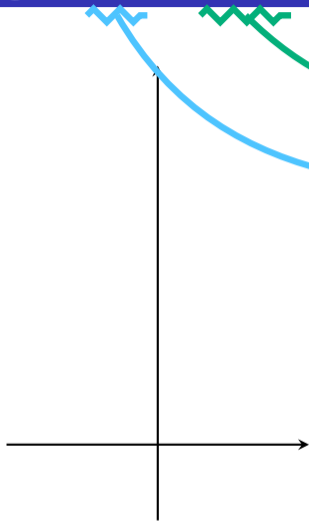
$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$  ? #37 その 7



$$\frac{-8}{2} = -4$$

4 ← 逆

$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$  ? #37 その 7



$$\frac{-8}{2} = -4$$

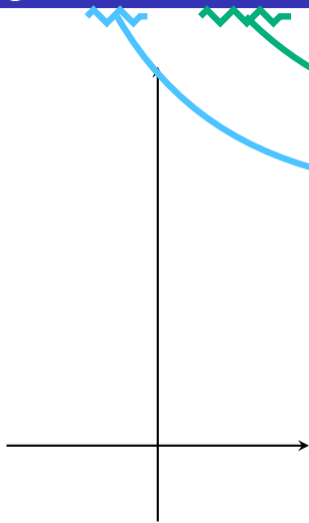
+-逆

$$4$$

÷2

$$2$$

$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$ ? #37 その 7

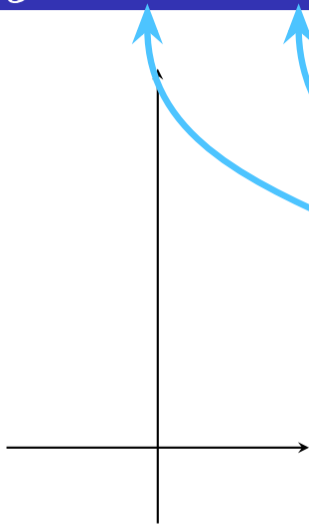


$$\frac{-8}{2} = -4 \quad \left\{ \begin{array}{l} + \\ - \end{array} \right. \text{逆}$$

$$4 \quad \left\{ \begin{array}{l} \div 2 \\ \div 2 \end{array} \right.$$
$$2$$

頂点 (2, )

$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$ ? #37 その 7

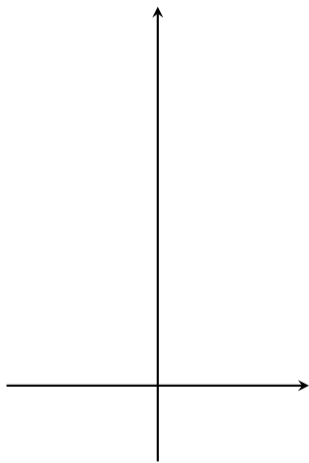


次に頂点の  $y$  座標を計算  
したいので、式に代入する

頂点 (2, )

$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$ ? #37 その 7

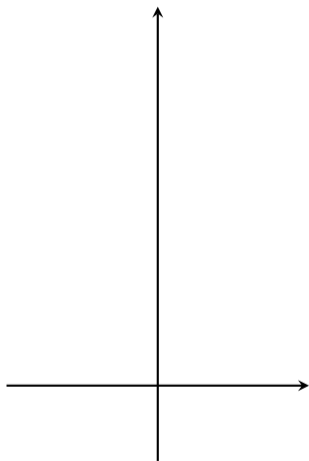
$$y = 2 \times 2^2 - 8 \times 2 + k + 9$$



頂点 (2, )



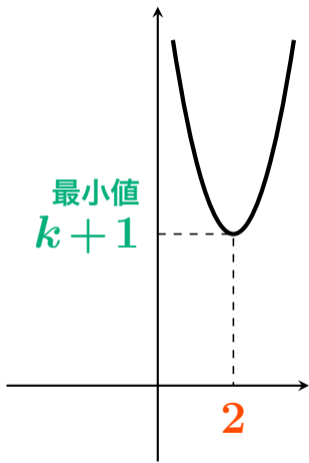
$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$ ? #37 その 7



$$\begin{aligned}y &= 2 \times 2^2 - 8 \times 2 + k + 9 \\&= 8 - 16 + k + 9 \\&= k + 1\end{aligned}$$

頂点  $(2, k + 1)$

$y = 2x^2 - 8x + k + 9$  は最小値が 4 ,  $k$ ? #37 その 7



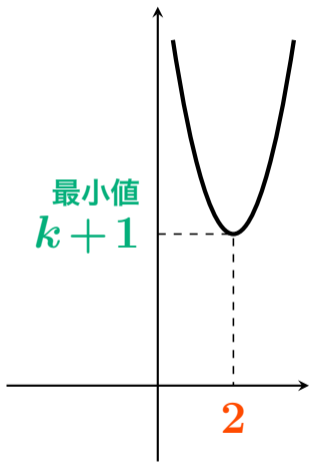
$$\begin{aligned}y &= 2 \times 2^2 - 8 \times 2 + k + 9 \\&= 8 - 16 + k + 9 \\&= k + 1\end{aligned}$$

頂点 (2,  $k + 1$ )

$y = 2x^2 - 8x + k + 9$  は最小値が  $4$  ,  $k$ ? #37 その 7

$k + 1 = 4$  になればよいので

答  $k = 3$



頂点  $(2, k + 1)$