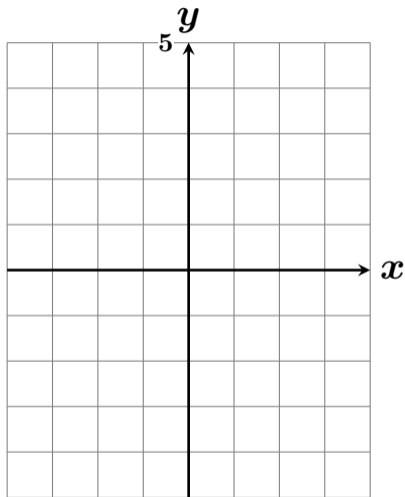
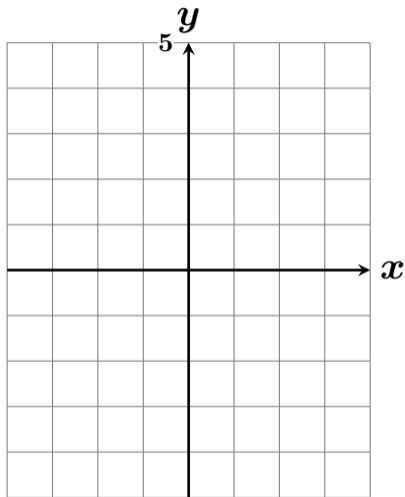


$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



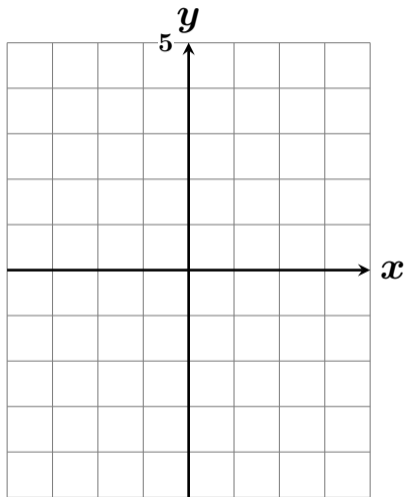
$x$	-3	-2	-1	0	1
$y$					

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



$x$	<b>-3</b>	-2	-1	0	1
$y$					

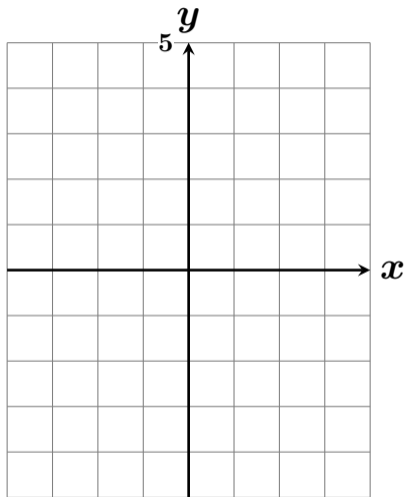
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	<b>-3</b>	-2	-1	0	1
$y$					

$$y = 2x^2 + 4x - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1

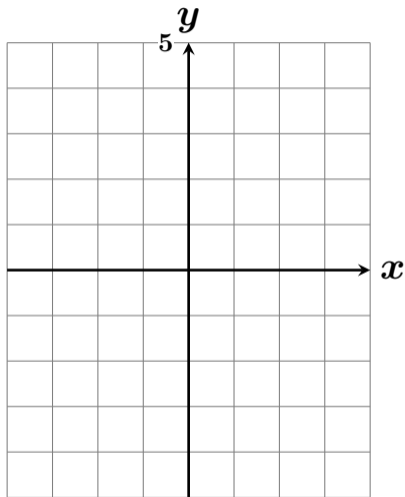


$x$	<b>-3</b>	-2	-1	0	1
$y$					

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-3)^2 + 4 \times (-3) - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



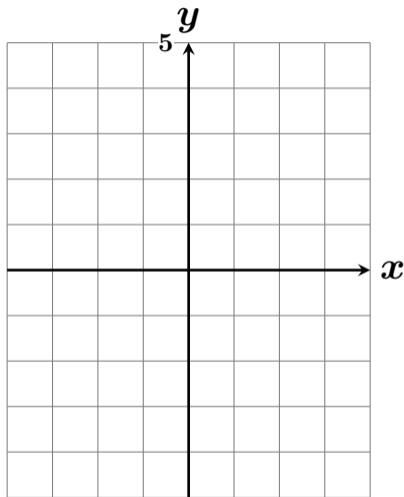
$x$	<b>-3</b>	-2	-1	0	1
$y$					

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-3)^2 + 4 \times (-3) - 1$$

$$= 2 \times 9 - 12 - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	<b>-3</b>	-2	-1	0	1
$y$					

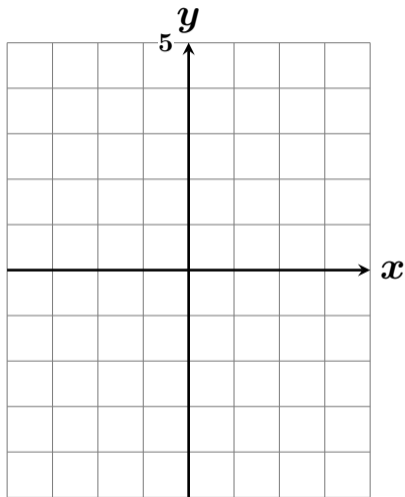
$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-3)^2 + 4 \times (-3) - 1$$

$$= 2 \times 9 - 12 - 1$$

$$= 18 - 12 - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	<b>-3</b>	-2	-1	0	1
$y$					

$$y = 2x^2 + 4x - 1$$

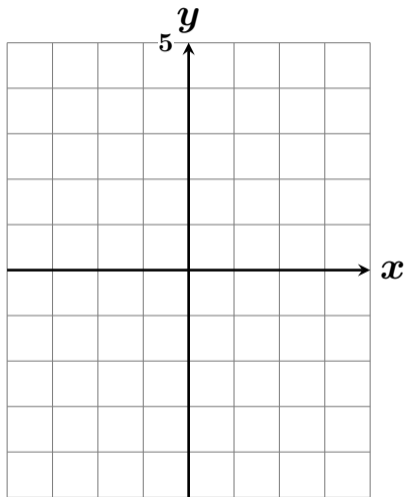
$$= 2 \times (-3)^2 + 4 \times (-3) - 1$$

$$= 2 \times 9 - 12 - 1$$

$$= 18 - 12 - 1$$

$$= 5$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	<b>-3</b>	-2	-1	0	1
$y$	<b>5</b>				

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-3)^2 + 4 \times (-3) - 1$$

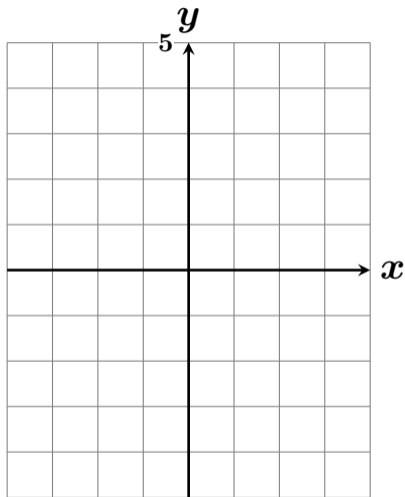
$$= 2 \times 9 - 12 - 1$$

$$= 18 - 12 - 1$$

$$= 5$$

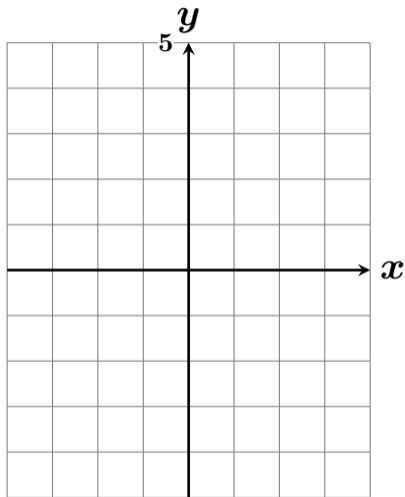


$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



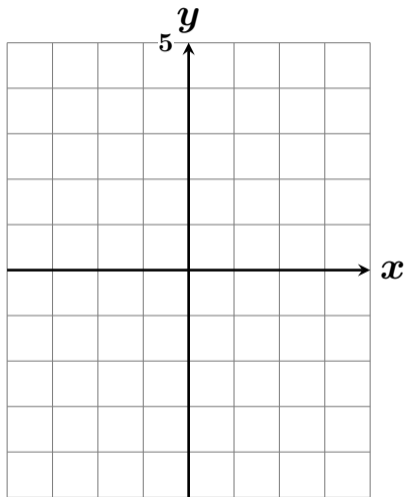
$x$	-3	-2	-1	0	1
$y$	5				

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5				

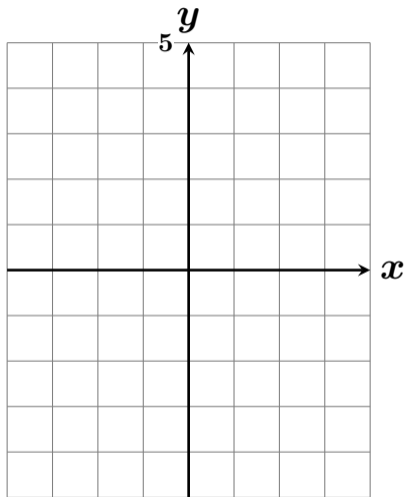
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5				

$$y = 2x^2 + 4x - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1

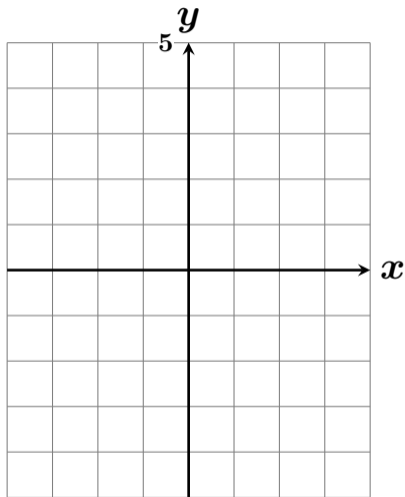


$x$	-3	-2	-1	0	1
$y$	5				

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-2)^2 + 4 \times (-2) - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



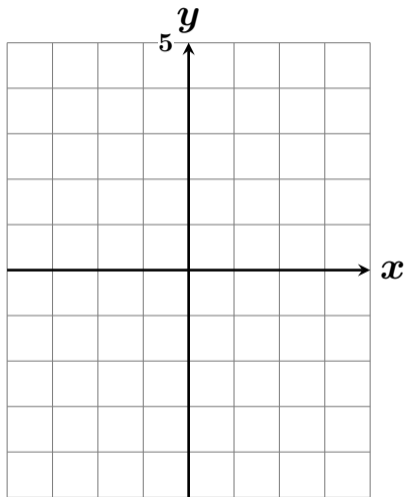
$x$	-3	-2	-1	0	1
$y$	5				

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-2)^2 + 4 \times (-2) - 1$$

$$= 2 \times 4 \quad - 8 \quad - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5				

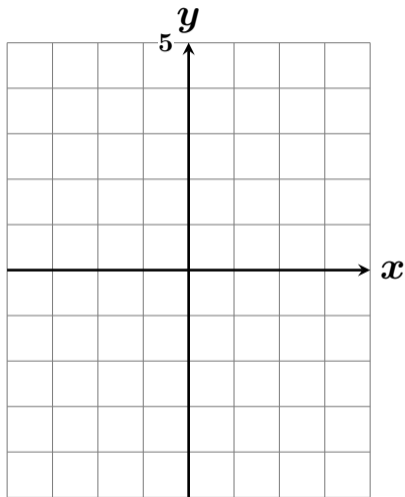
$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-2)^2 + 4 \times (-2) - 1$$

$$= 2 \times 4 \quad -8 \quad -1$$

$$= 8 \quad -8 \quad -1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5				

$$y = 2x^2 + 4x - 1$$

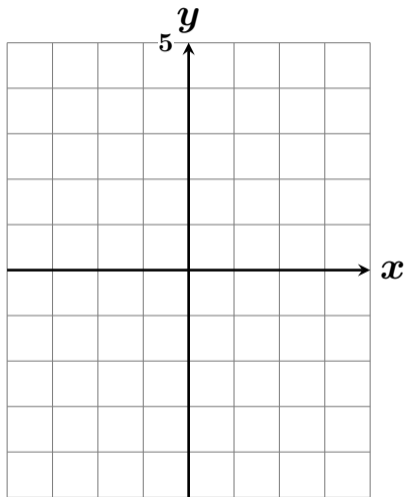
$$= 2 \times (-2)^2 + 4 \times (-2) - 1$$

$$= 2 \times 4 - 8 - 1$$

$$= 8 - 8 - 1$$

$$= -1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1			

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-2)^2 + 4 \times (-2) - 1$$

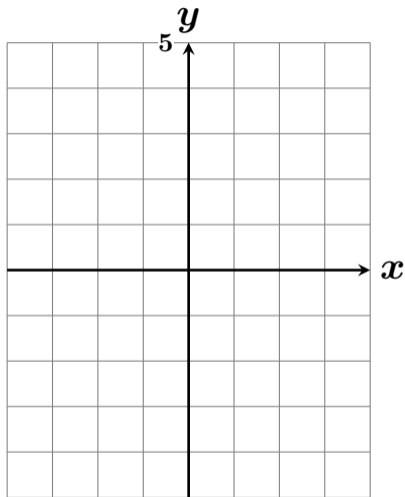
$$= 2 \times 4 - 8 - 1$$

$$= 8 - 8 - 1$$

$$= -1$$

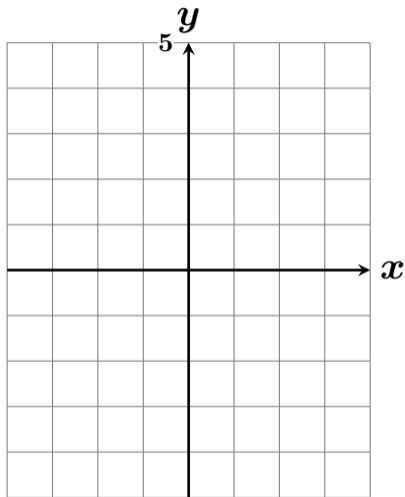


$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



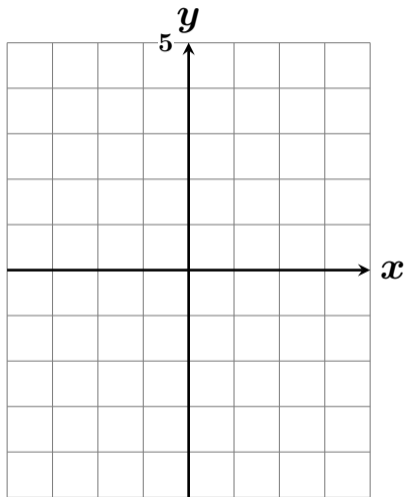
$x$	-3	-2	-1	0	1
$y$	5	-1			

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1			

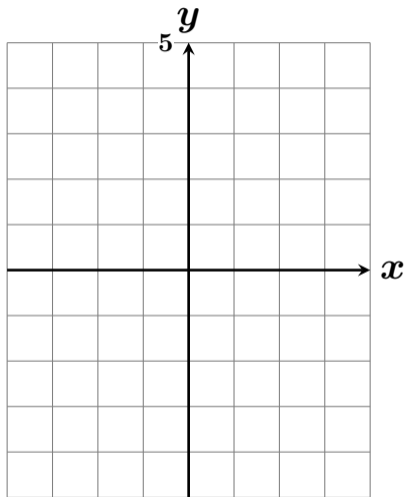
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1			

$$y = 2x^2 + 4x - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1

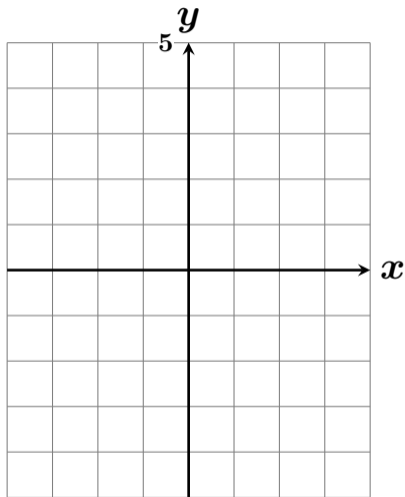


$x$	-3	-2	-1	0	1
$y$	5	-1			

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-1)^2 + 4 \times (-1) - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



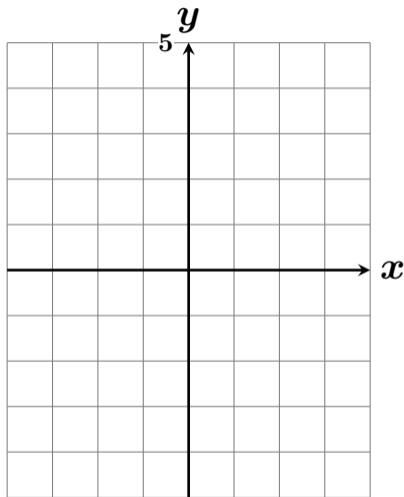
$x$	-3	-2	-1	0	1
$y$	5	-1			

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-1)^2 + 4 \times (-1) - 1$$

$$= 2 \times 1 - 4 - 1$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1			

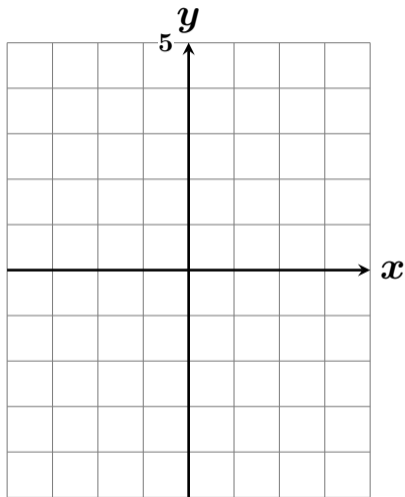
$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-1)^2 + 4 \times (-1) - 1$$

$$= 2 \times 1 \quad -4 \quad -1$$

$$= 2 \quad -4 \quad -1$$

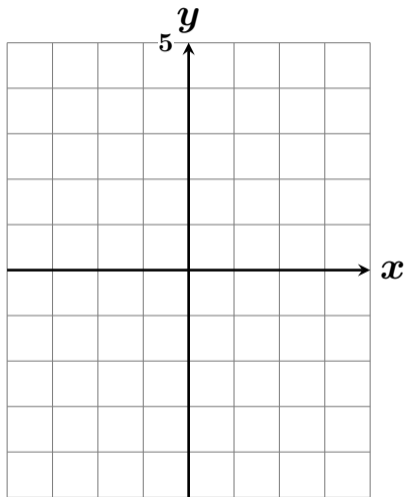
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1			

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times (-1)^2 + 4 \times (-1) - 1 \\ &= 2 \times 1 \quad -4 \quad -1 \\ &= 2 \quad -4 \quad -1 \\ &= -3\end{aligned}$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$$y = 2x^2 + 4x - 1$$

$$= 2 \times (-1)^2 + 4 \times (-1) - 1$$

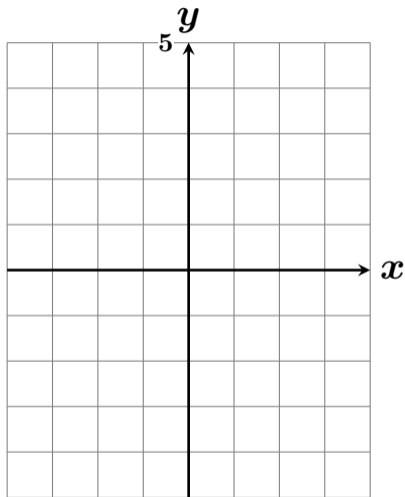
$$= 2 \times 1 - 4 - 1$$

$$= 2 - 4 - 1$$

$$= -3$$

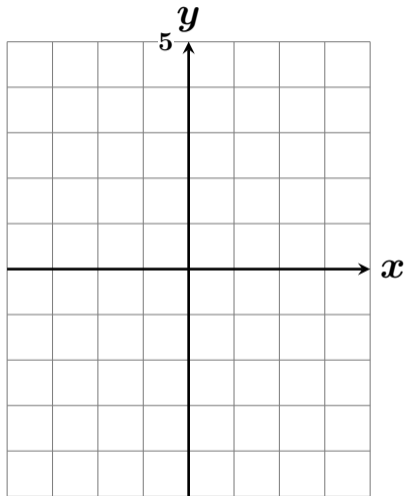


$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



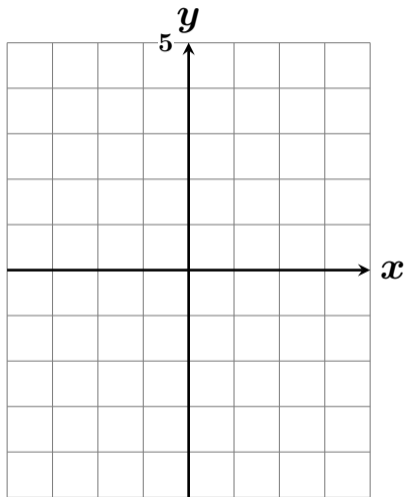
$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

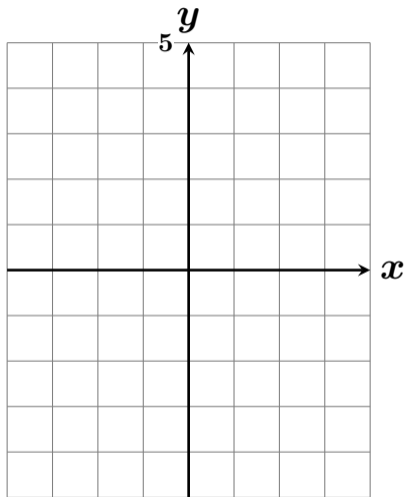
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$$y = 2x^2 + 4x - 1$$

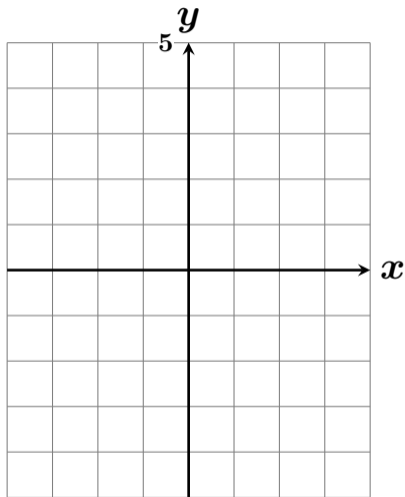
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 0^2 + 4 \times 0 - 1\end{aligned}$$

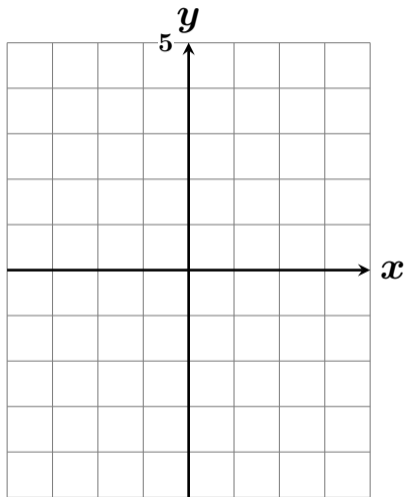
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 0^2 + 4 \times 0 - 1 \\ &= 2 \times 0 + 0 - 1\end{aligned}$$

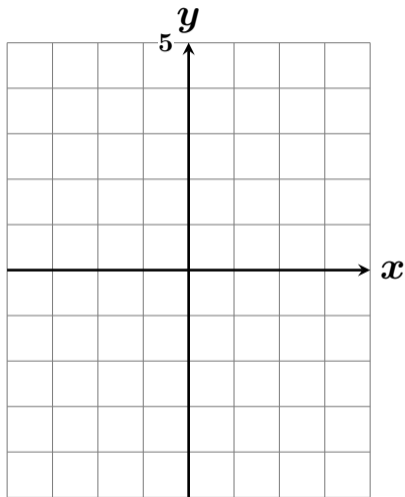
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 0^2 + 4 \times 0 - 1 \\ &= 2 \times 0 + 0 - 1 \\ &= 0 + 0 - 1\end{aligned}$$

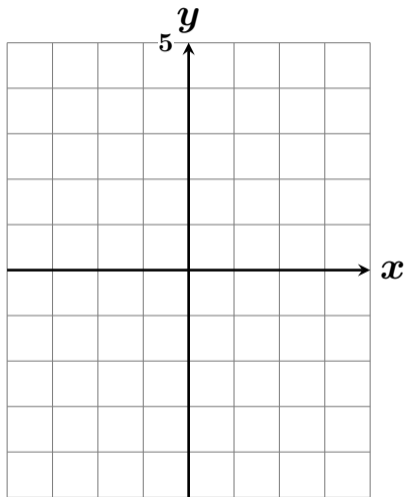
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3		

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 0^2 + 4 \times 0 - 1 \\ &= 2 \times 0 + 0 - 1 \\ &= 0 + 0 - 1 \\ &= -1\end{aligned}$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1

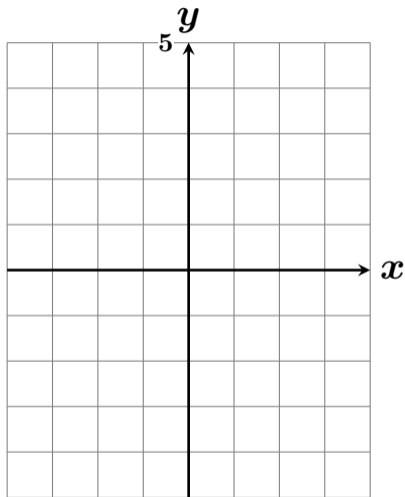


$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 0^2 + 4 \times 0 - 1 \\ &= 2 \times 0 + 0 - 1 \\ &= 0 + 0 - 1 \\ &= -1\end{aligned}$$

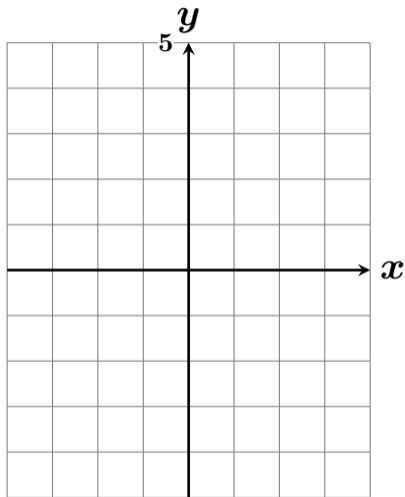


$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



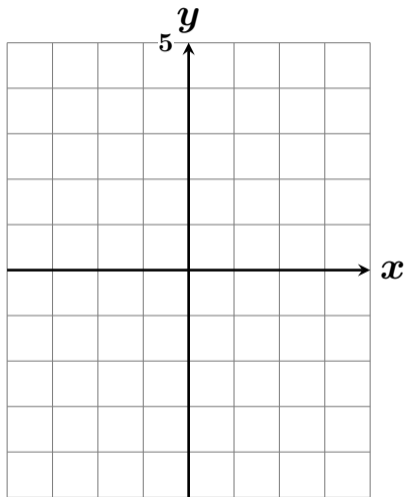
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

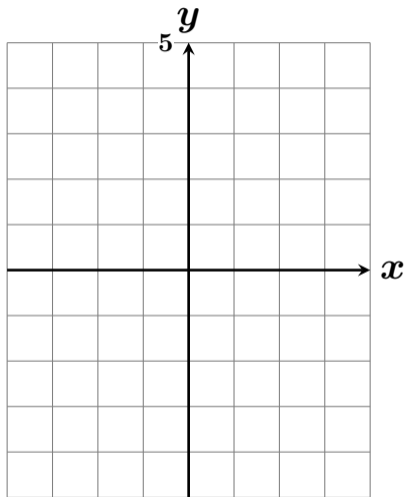
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$$y = 2x^2 + 4x - 1$$

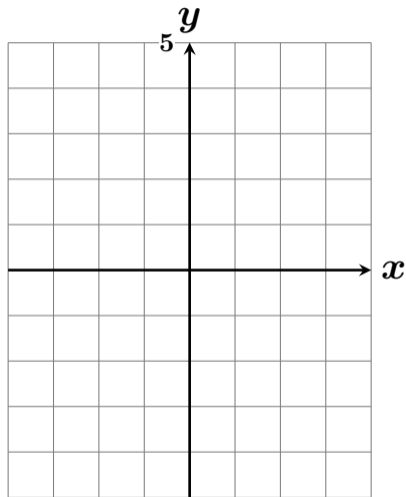
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 1^2 + 4 \times 1 - 1\end{aligned}$$

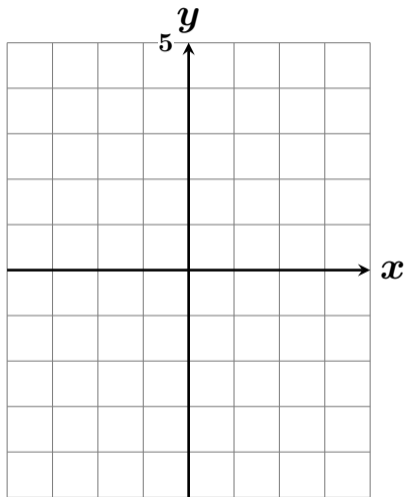
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 1^2 + 4 \times 1 - 1 \\ &= 2 \times 1 + 4 - 1\end{aligned}$$

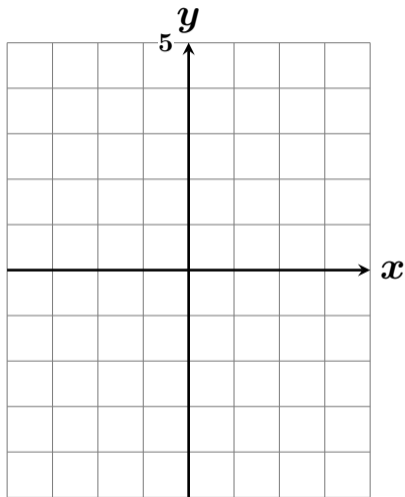
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 1^2 + 4 \times 1 - 1 \\ &= 2 \times 1 + 4 - 1 \\ &= 2 + 4 - 1\end{aligned}$$

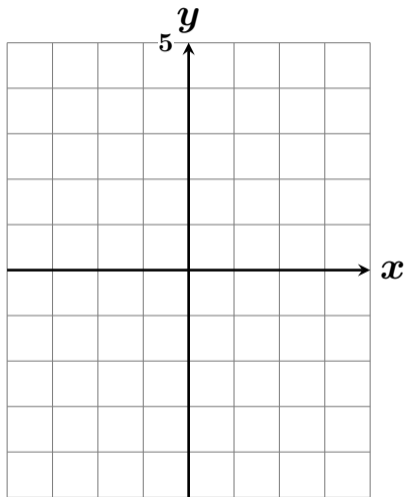
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 1^2 + 4 \times 1 - 1 \\ &= 2 \times 1 + 4 - 1 \\ &= 2 + 4 - 1 \\ &= 5\end{aligned}$$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1

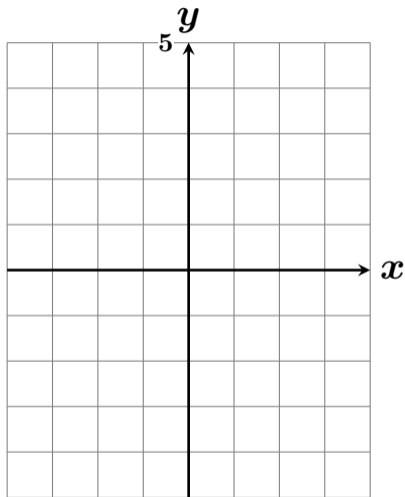


$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

$$\begin{aligned}y &= 2x^2 + 4x - 1 \\ &= 2 \times 1^2 + 4 \times 1 - 1 \\ &= 2 \times 1 + 4 - 1 \\ &= 2 + 4 - 1 \\ &= 5\end{aligned}$$

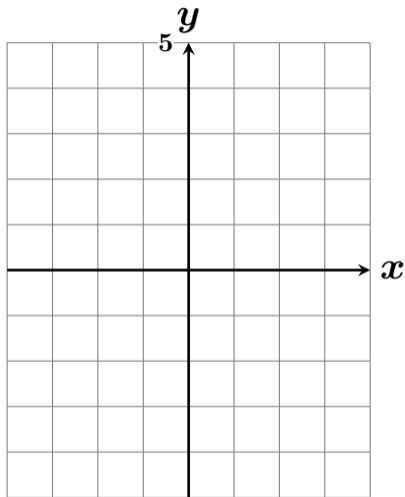


$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



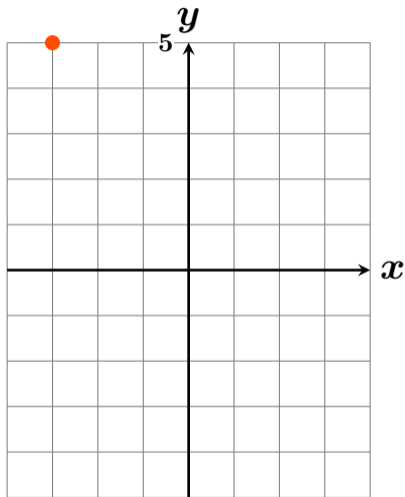
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



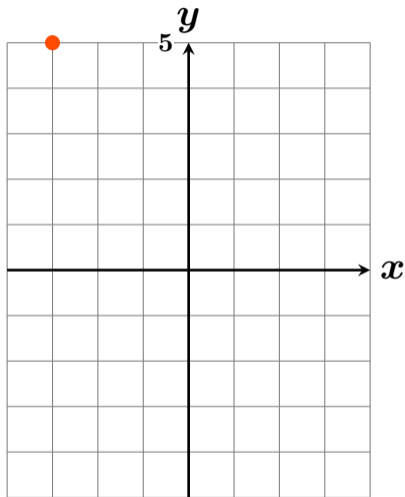
$x$	<b>-3</b>	-2	-1	0	1
$y$	<b>5</b>	-1	-3	-1	5

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



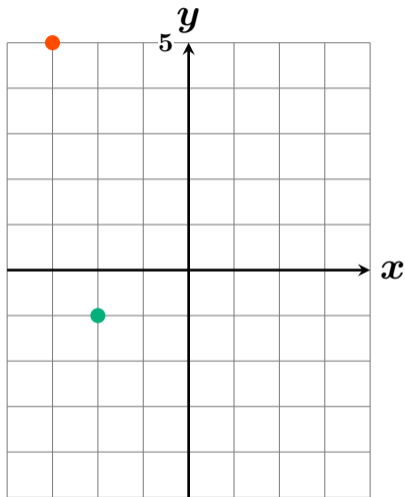
$x$	<b>-3</b>	-2	-1	0	1
$y$	<b>5</b>	-1	-3	-1	5

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



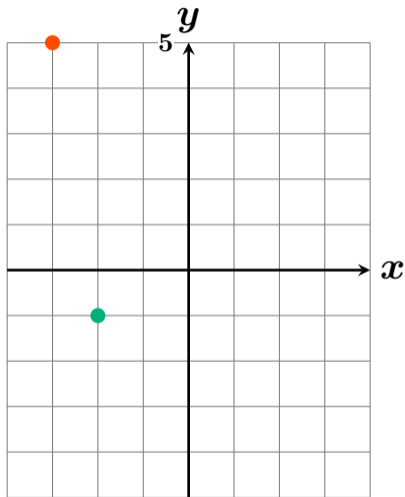
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



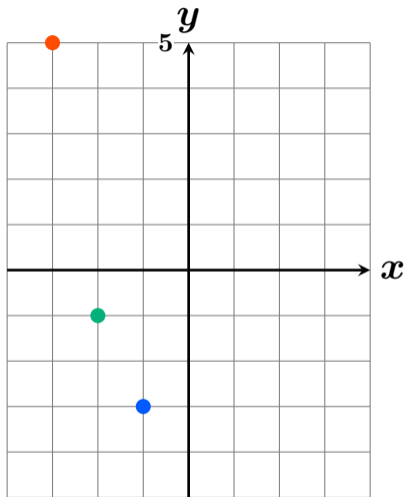
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



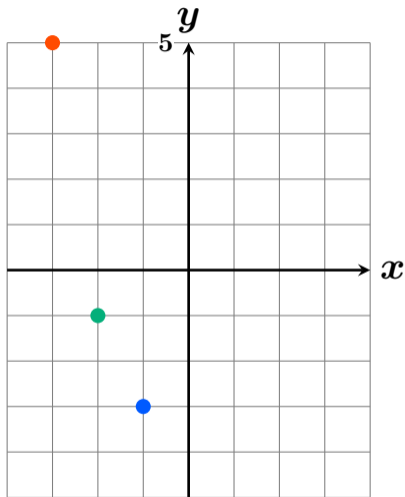
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

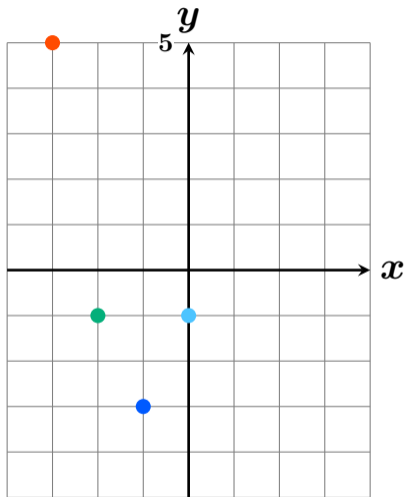
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

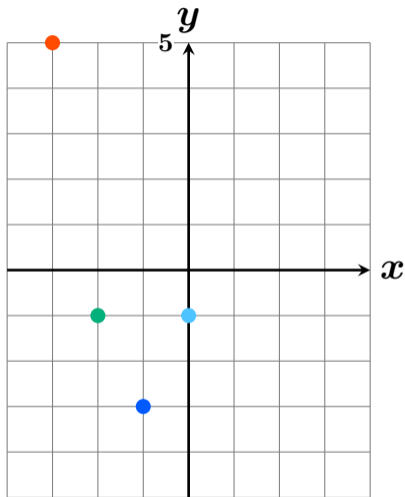


# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



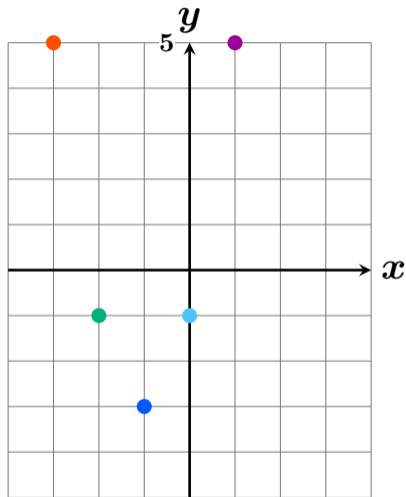
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



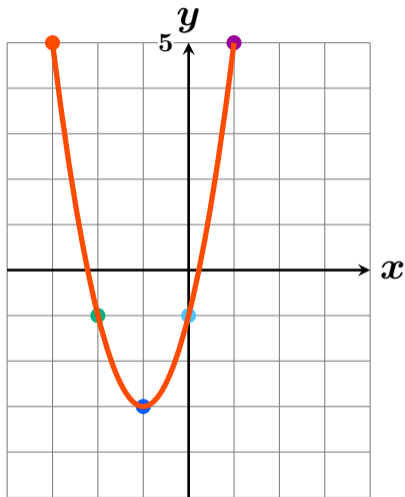
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



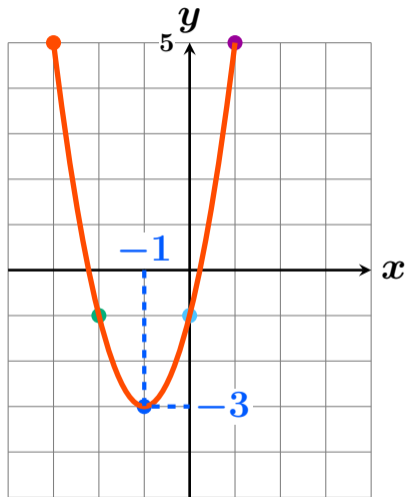
$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

$y = 2x^2 + 4x - 1$  のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

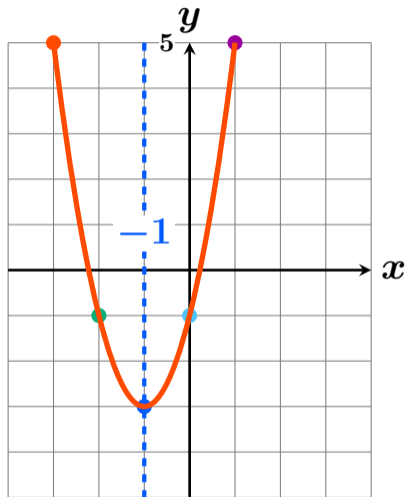
# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

頂点  $(-1, -3)$

# $y = 2x^2 + 4x - 1$ のグラフを描きなさい #32 1



$x$	-3	-2	-1	0	1
$y$	5	-1	-3	-1	5

頂点  $(-1, -3)$

軸  $x = -1$