

- Question numbers Show answers
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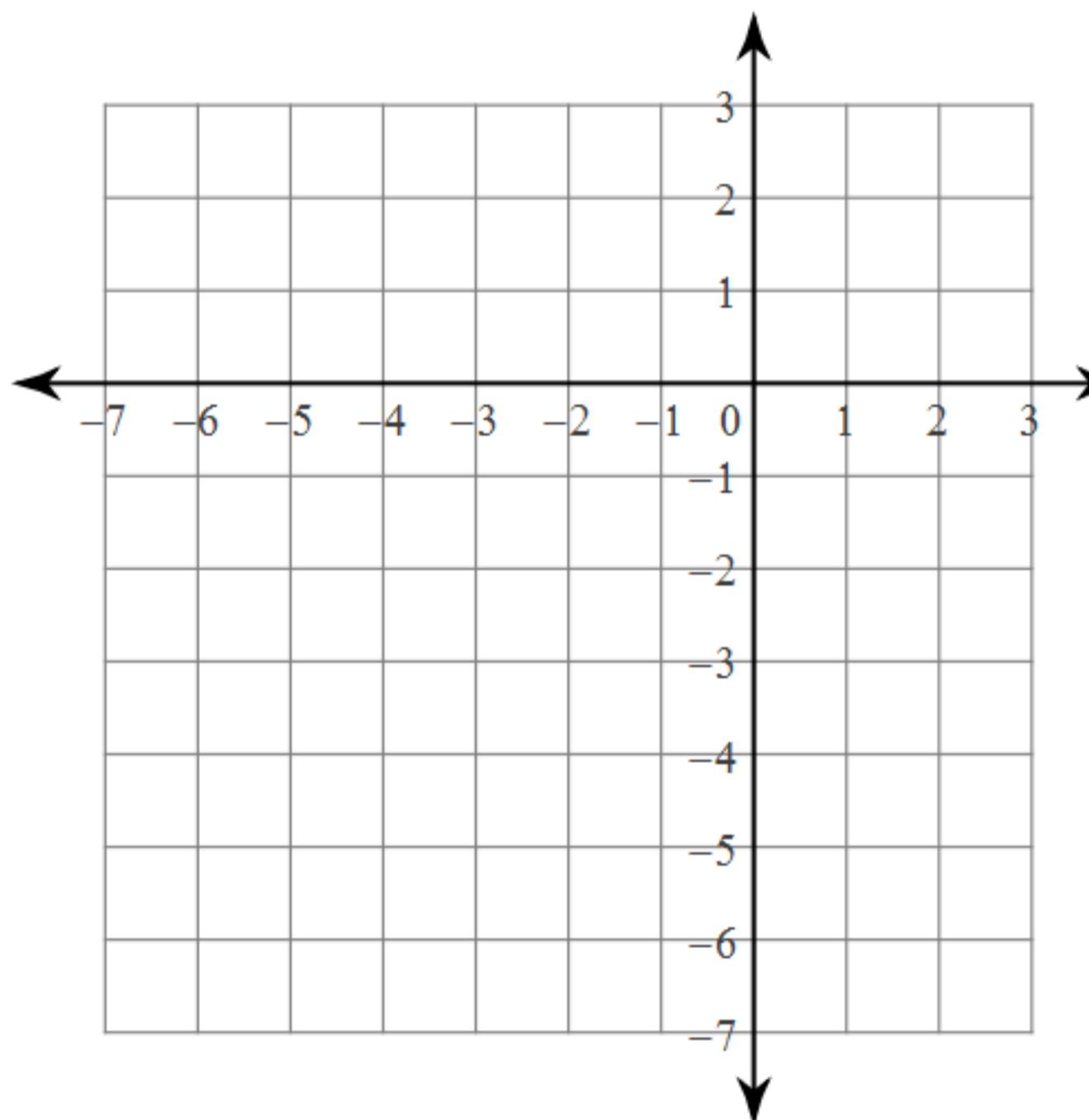
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1-up ▾

Sketch the graph of each function. CHANGE TO STANDARD FORM.

2) $y = -2(x + 3)^2 + 2$



Graph the function $y = -2(x + 3)^2 + 2$ on the coordinate plane. The graph consists of four horizontal blue lines, each spaced 1 unit apart vertically, starting from the top of the graph area down to the bottom.



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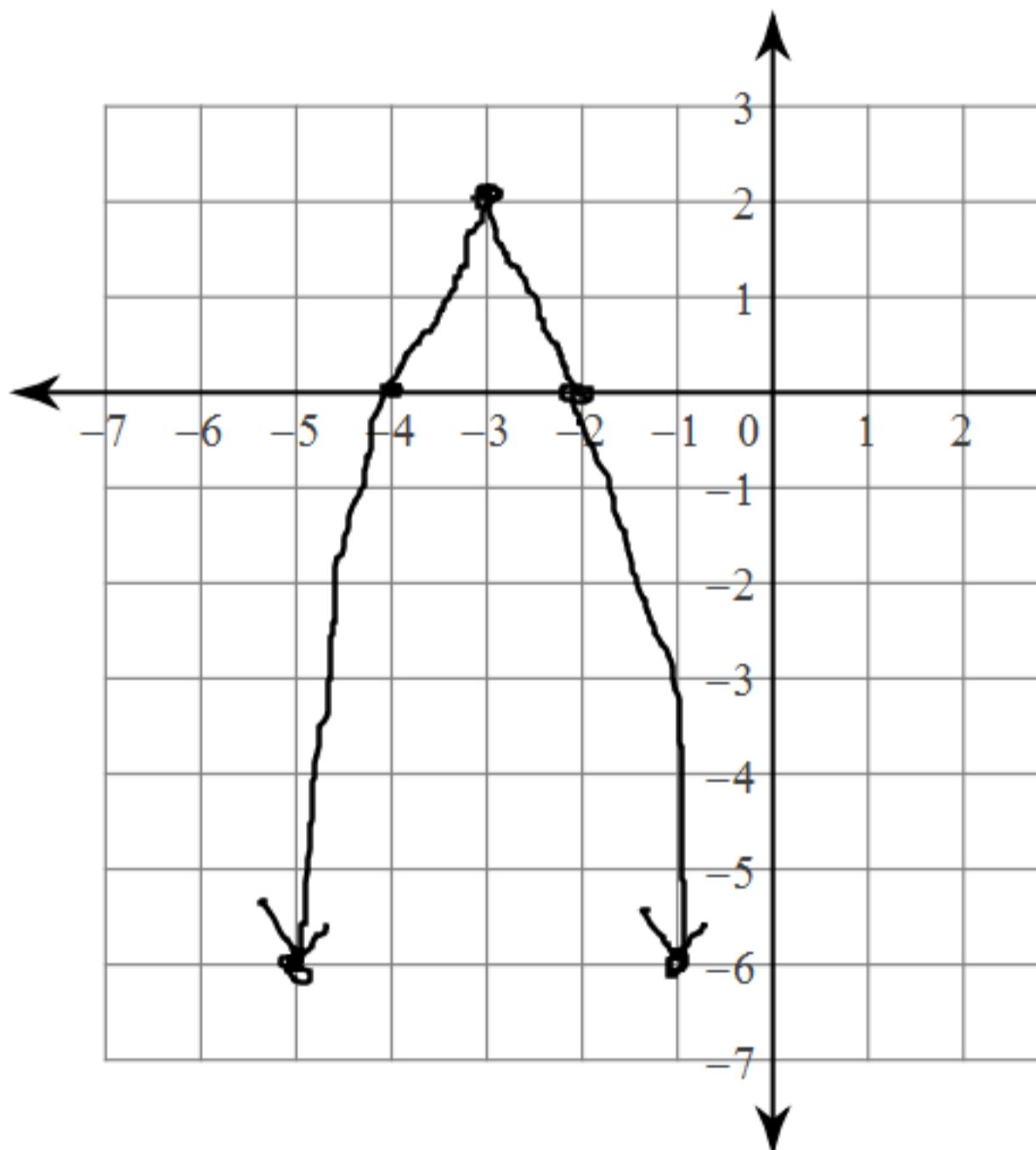
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→

1-up ▾

Sketch the graph of each function. CHANGE TO STANDARD FORM.

2) $y = -2(x + 3)^2 + 2$



max, vertex $(-3, 2)$

$a - f S = -3$

$$y = -2(x + 3)(x + 3) + 2$$

$$y = -2(x^2 + 3x + 3x + 9) + 2$$

$$y = -2(x^2 + 6x + 9) + 2$$

$$y = -2x^2 - 12x - 18 + 2$$

$$y = -2x^2 - 12x - 16$$



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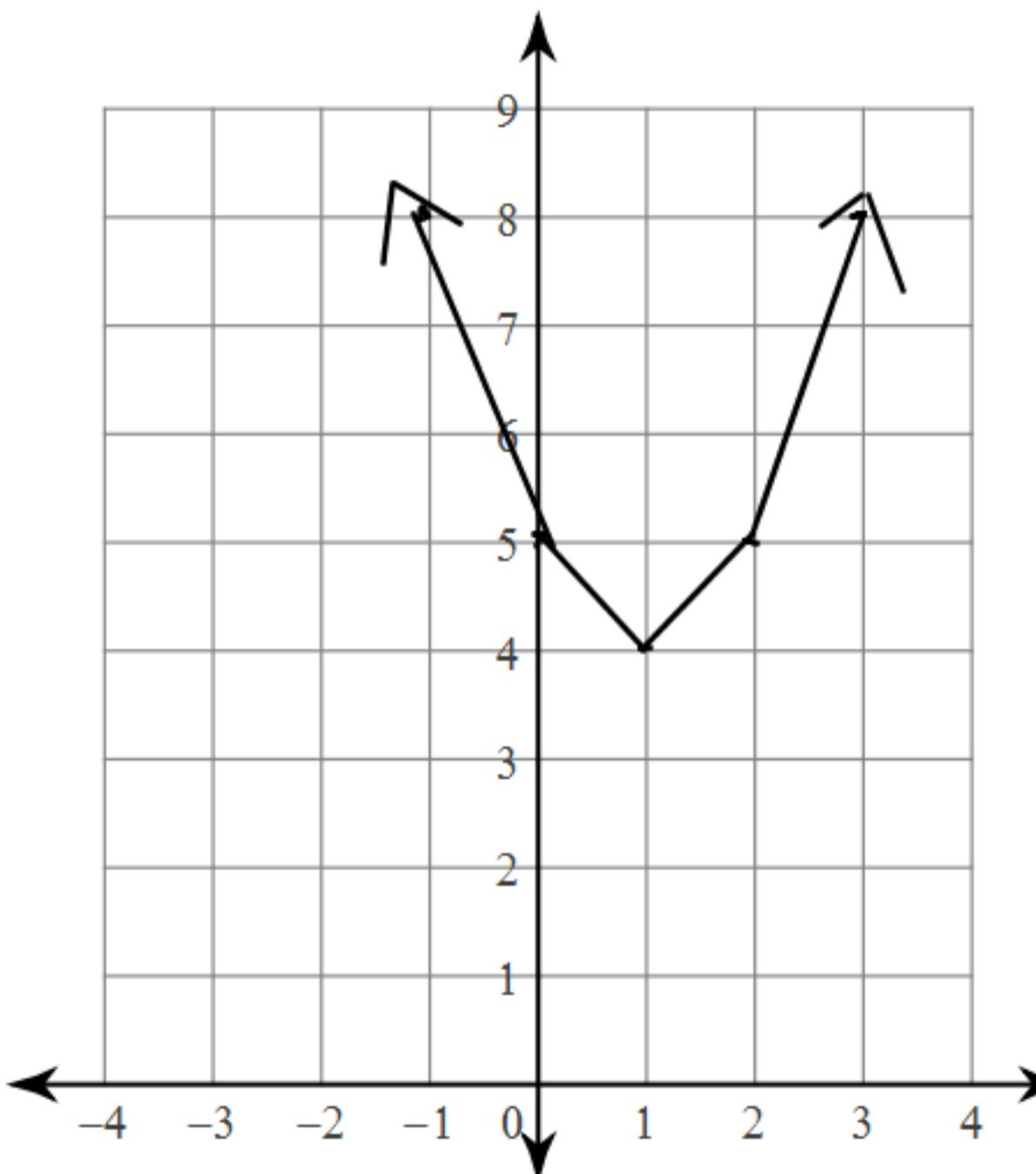
Jump



1-up

Sketch the graph of each function. CHANGE TO STANDARD FORM.

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



a $\oslash \Sigma = 1$, vertex $(1, 4)$, min.

$$y = (x - 1)(x - 1) + 4$$

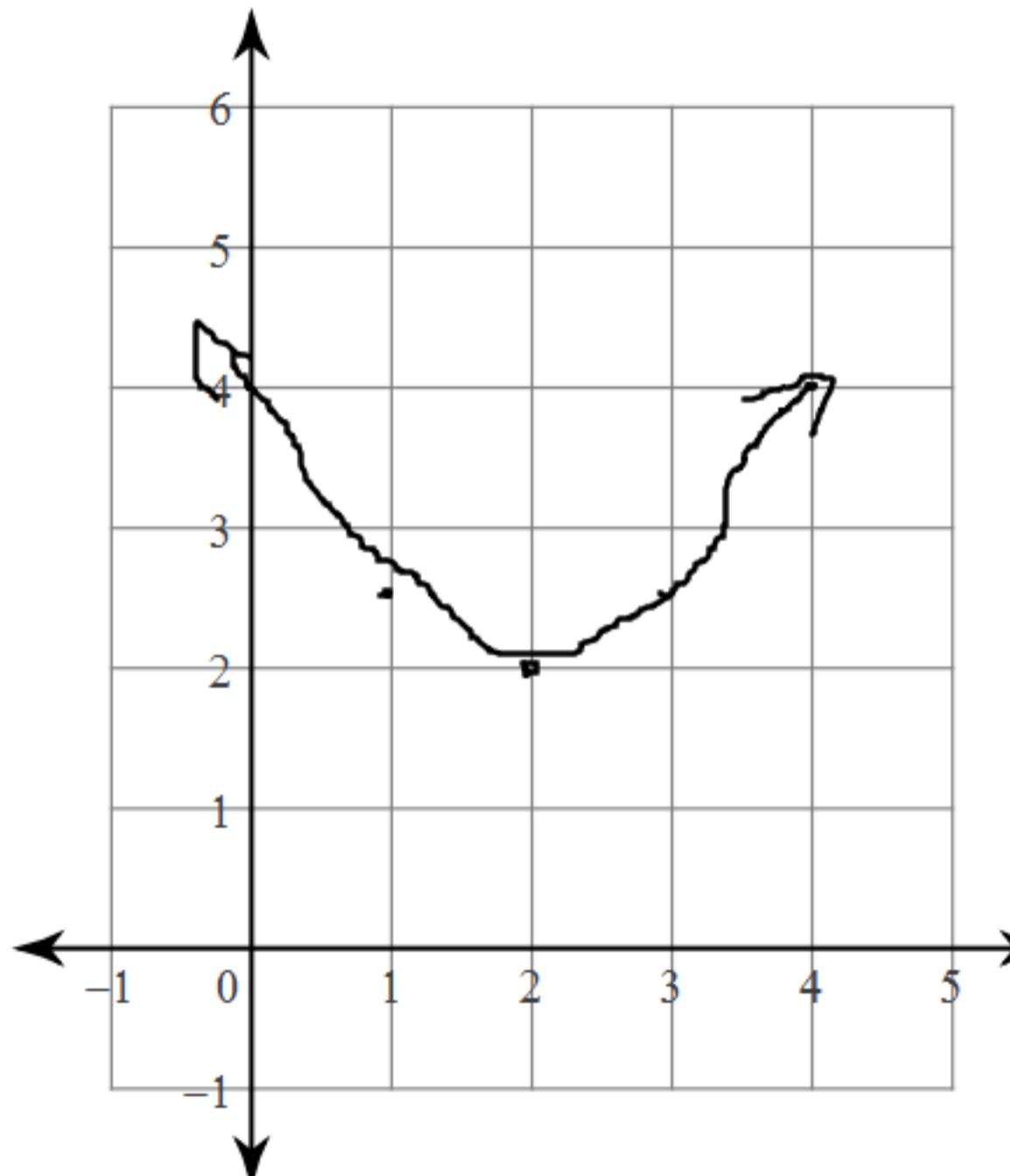
$$y = x^2 - 1x - 1x + 1 + 4$$

$$y = x^2 - 2x + 5$$

Sketch the graph of each function. CHANGE TO STANDARD FORM.

vertex $\rightarrow (2, 2)$, min, a of ≤ 0

6) $y = \frac{1}{2}(x - 2)^2 + 2$



$$y = \frac{1}{2} (x - 2)(x - 2) + 2$$

$$y = \frac{1}{2} (x^2 - 2x - 2x + 4) + 2$$

$$y = \frac{1}{2} (x^2 - 4x + 4) + 2$$

$$y = \frac{1}{2} x^2 - \frac{4}{2} x + \frac{4}{2} + 2$$

$$y = \frac{1}{2} x^2 - 2x + 2 + 2$$

$$y = \frac{1}{2} x^2 - 2x + 4$$

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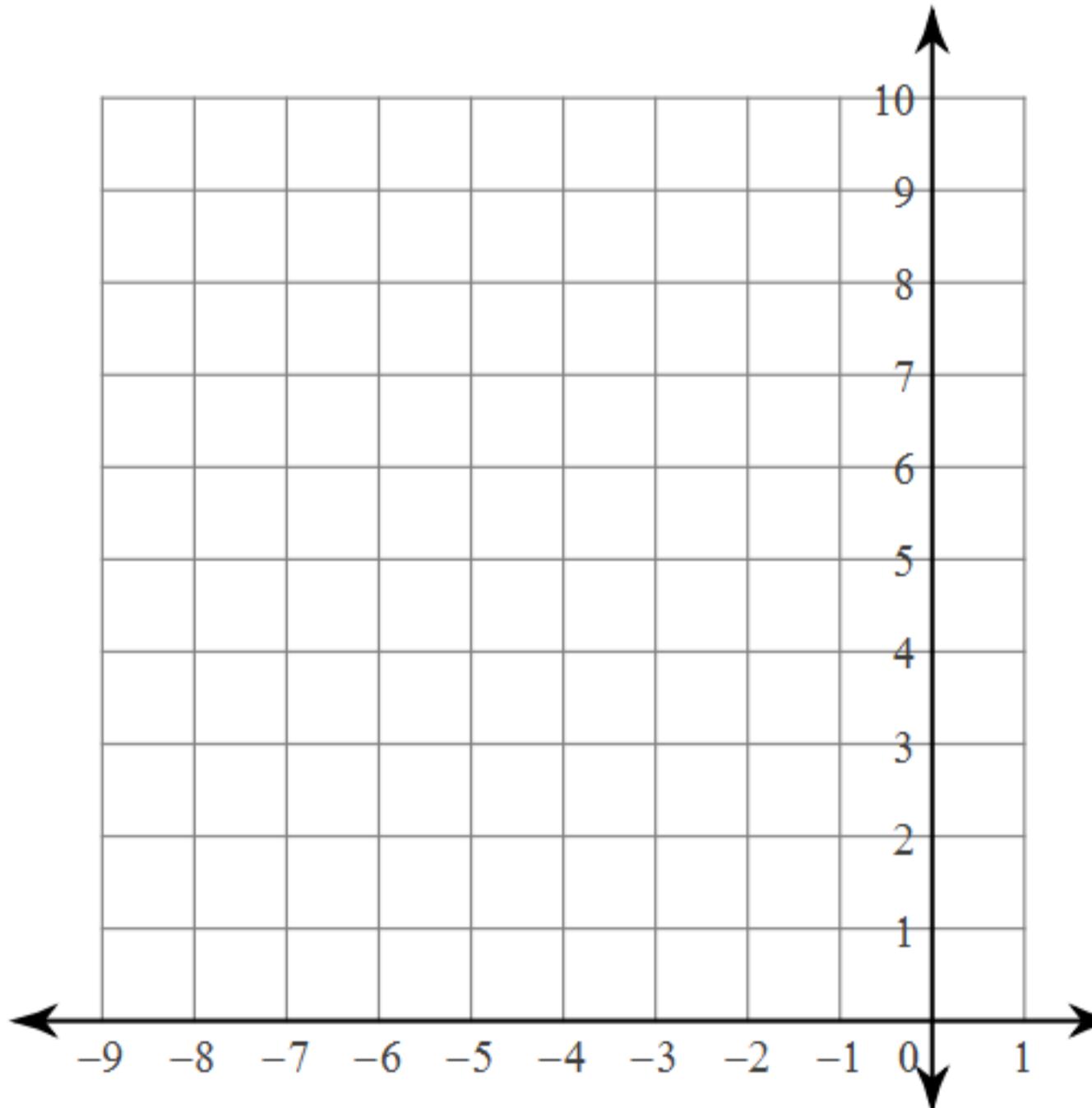
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Jump

1-up

Sketch the graph of each function. CHANGE TO STANDARD FORM.

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



Graph the function $y = 2(x + 3)^2 + 1$ on the coordinate plane. The graph consists of five horizontal lines, each spaced 1 unit apart vertically, starting from the bottom line at $y = 1$ up to the top line at $y = 9$.