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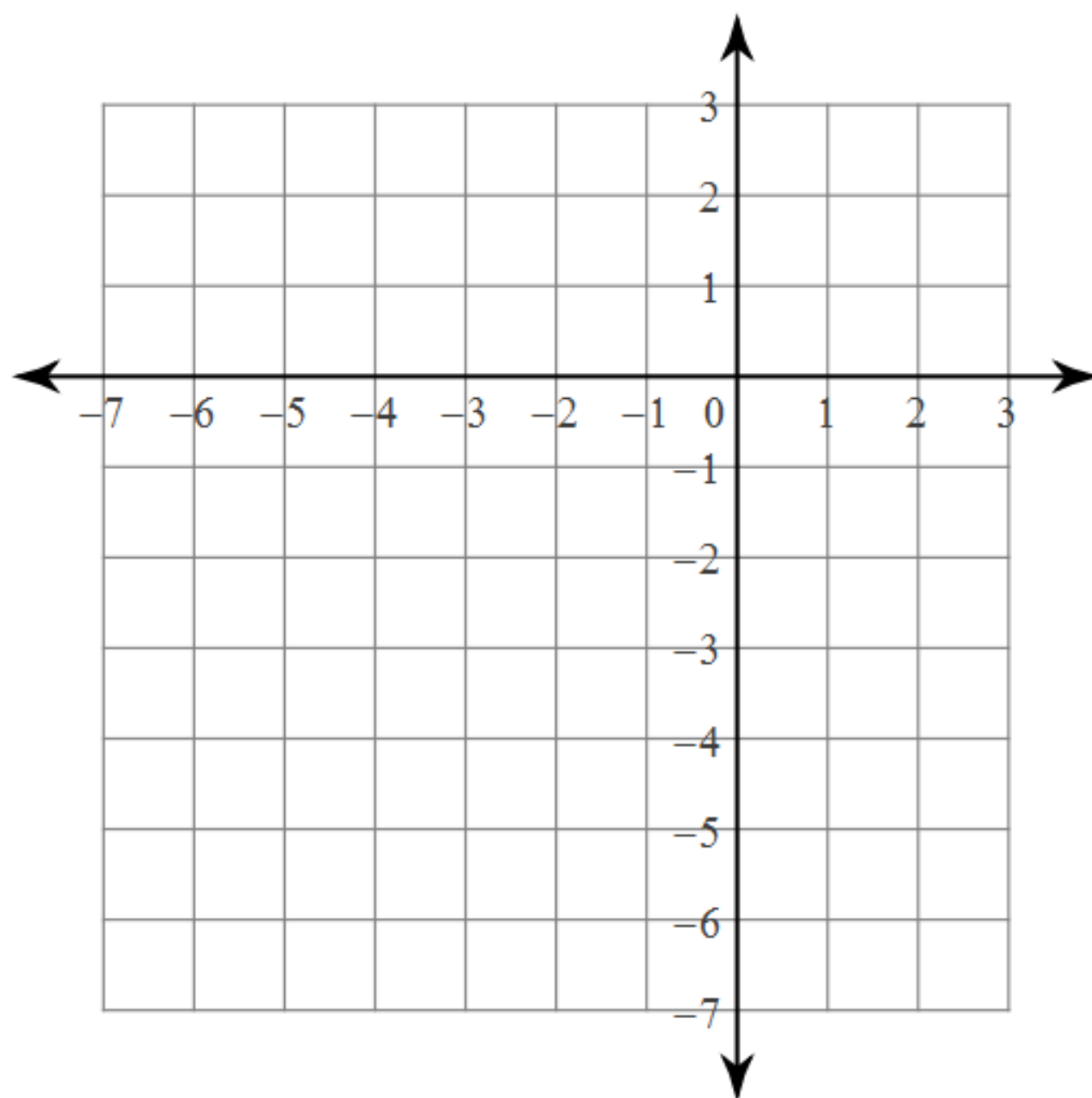
Jump



1-up

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

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



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

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

max, vertex $(-3, 2)$

$$a = fs = -3$$

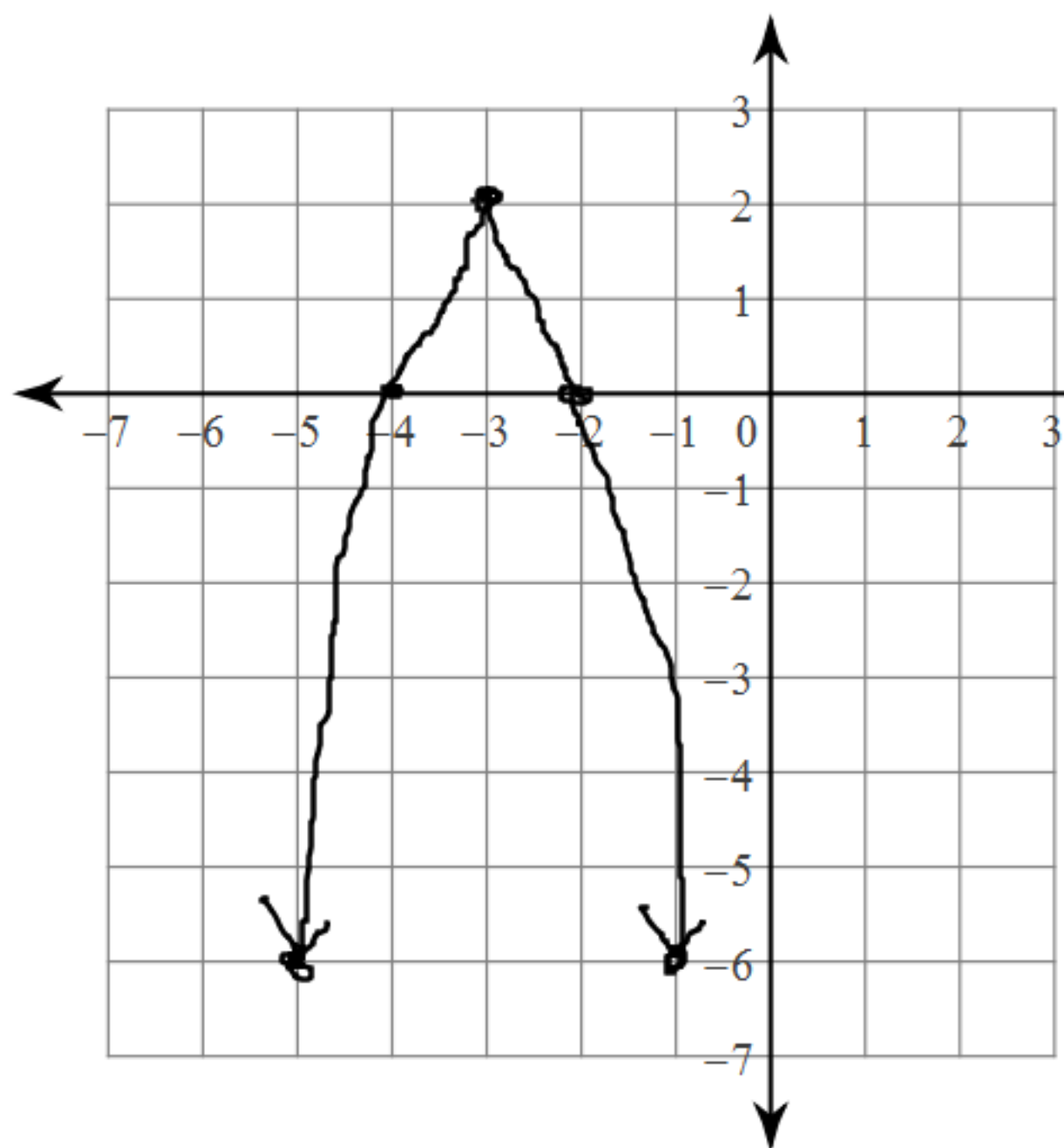
$$y = -2(\overbrace{(x+3)}^{\text{a}})(\overbrace{(x+3)}^{\text{fs}}) + 2$$

$$y = -2(x^2 + \overbrace{3x + 3x}^{\text{a} \cdot \text{fs}} + 9) + 2$$

$$y = -2(\overbrace{x^2 + 6x + 9}^{\text{a} \cdot \text{fs}}) + 2$$

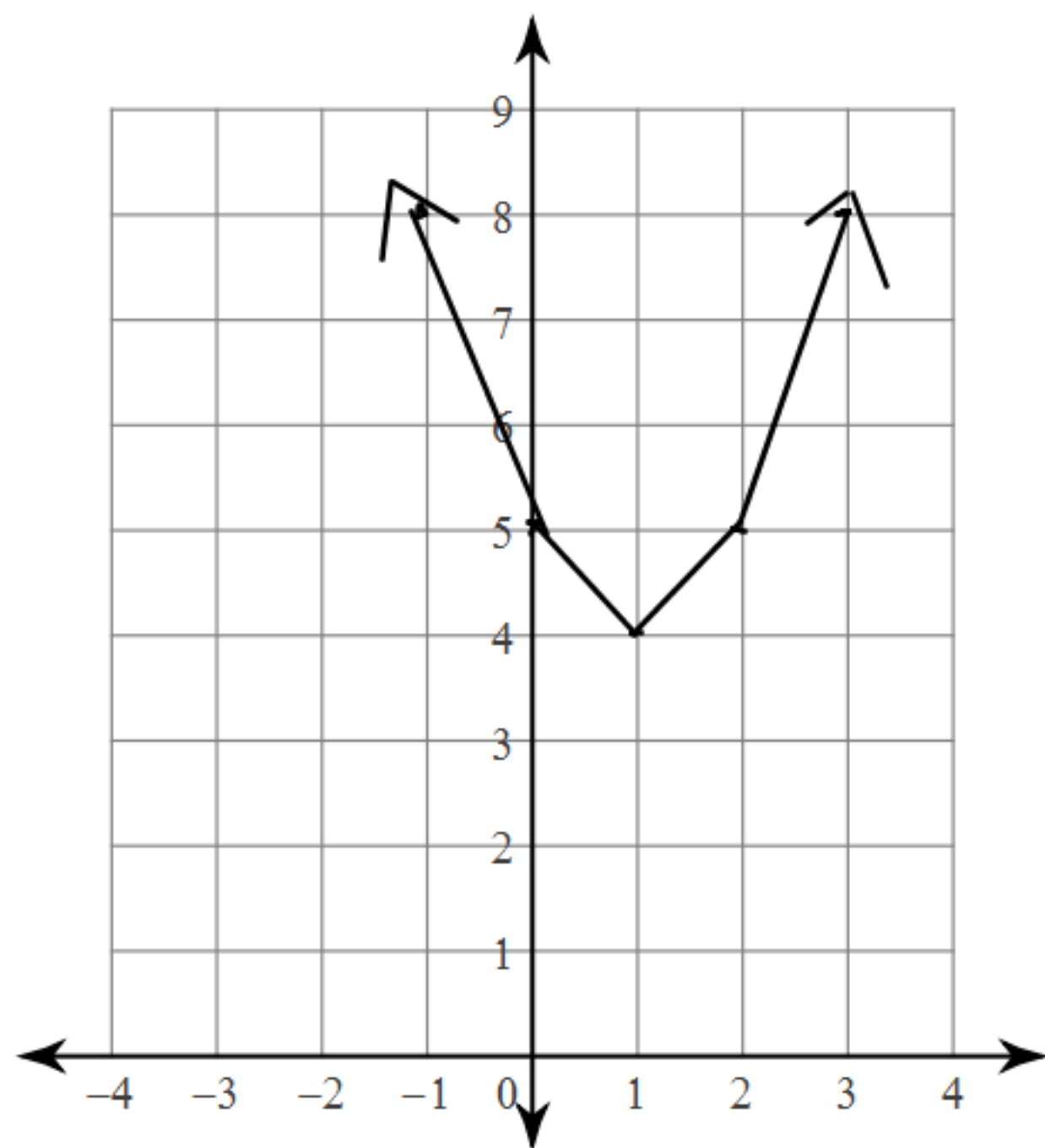
$$y = -2x^2 - \overbrace{12x - 18}^{\text{a} \cdot \text{fs}} + 2$$

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



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

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



$a \text{ or } 5 = 1$, vertex $(1, 4)$, min.

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

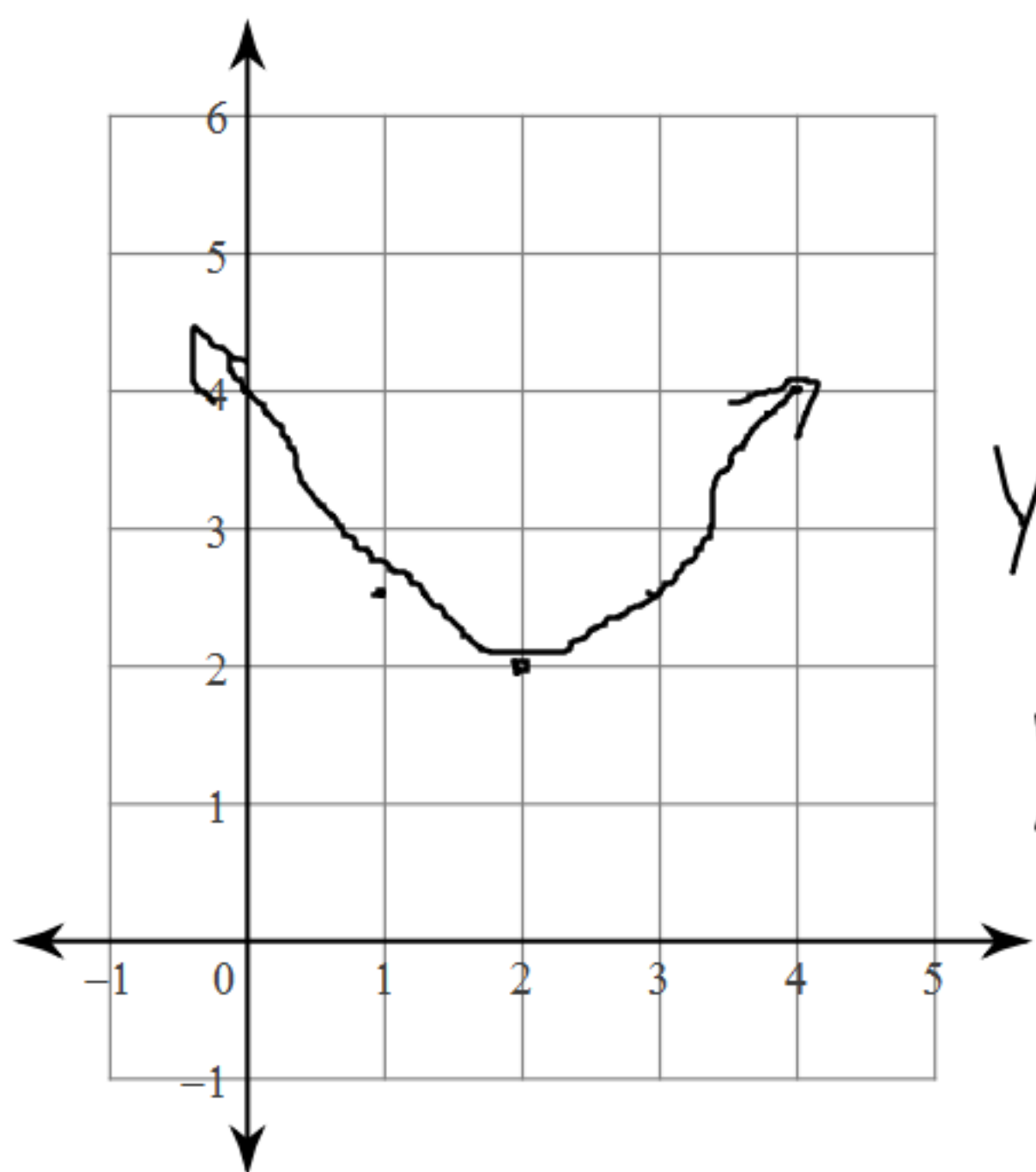
$$y = x^2 - \underbrace{1x - 1x} + \underbrace{1 + 4}$$

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

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

vertex $\rightarrow (2, 2)$, min, a of $S = 1$

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



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

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

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

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

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

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

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



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

