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8 questions

Current question sets (3):

6 × Graphing Quadratic Functions
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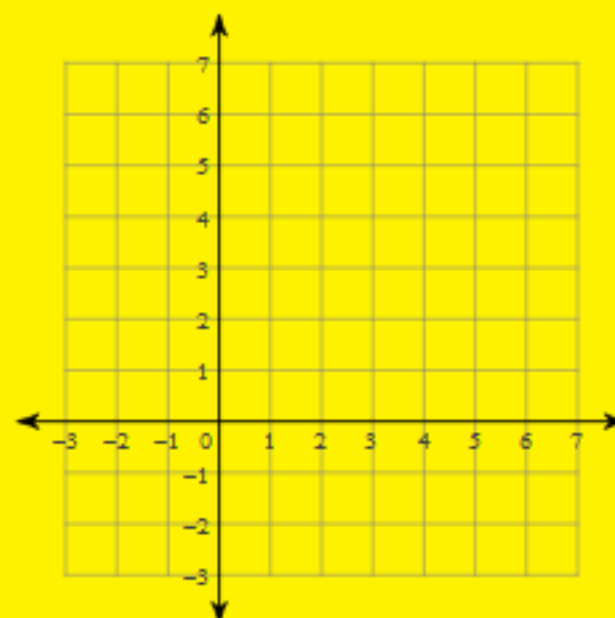
Math 11C

Name _____

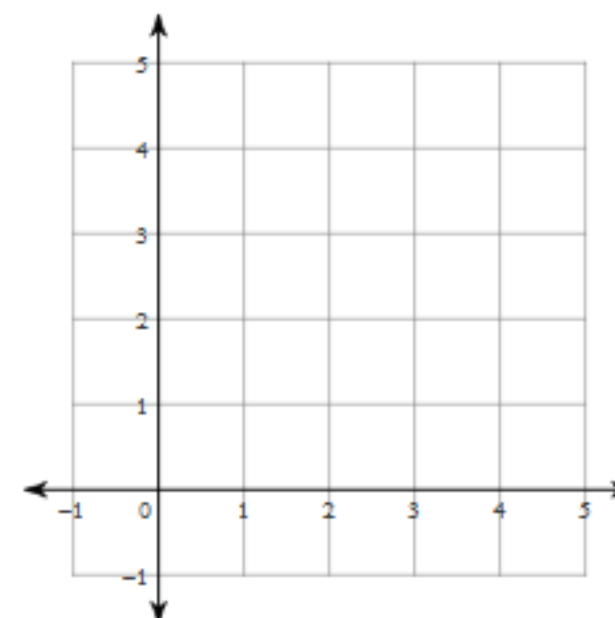
Zeroes, Y-Intercept, Vertex, Graph;

Sketch the graph of each function.

1) $y = 2x^2 - 8x + 6$

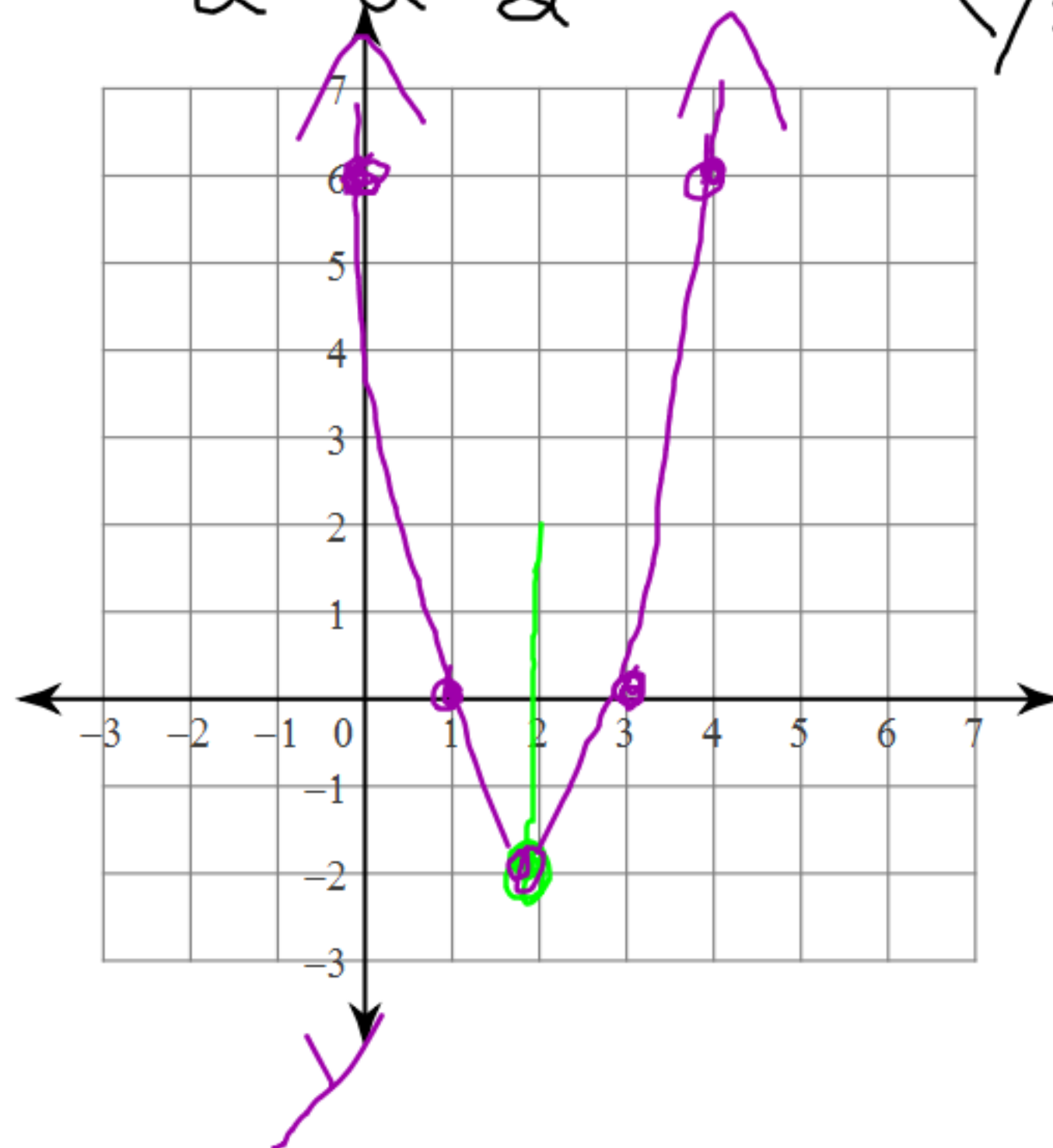


2) $y = -x^2 + 4x$



Sketch the graph of each function.

1) $y = \frac{2x^2}{2} - \frac{8x}{2} + \frac{6}{2}$



① Factor to find $0's$

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

$$y = 2(x-1)(x-3)$$

$\begin{array}{r} \textcircled{x}^3 \\ \textcircled{+} -4 \\ \hline 1, 3 \end{array}$

$x-1=0$
 $x=1$

$x-3=0$
 $x=3$

s.s. $\{1, 3\}$

② y-intercept:

$$y = 2x^2 - 8x + 6$$

$$y = 2(0)^2 - 8(0) + 6$$

$$y = 6$$

$(0, 6)$



③ Find vertex (a.o.s)

$$y = 2x^2 - 8x + 6$$

$$y = 2(2)^2 - 8(2) + 6$$

$$y = 8 - 16 + 6$$

$$y = -2$$

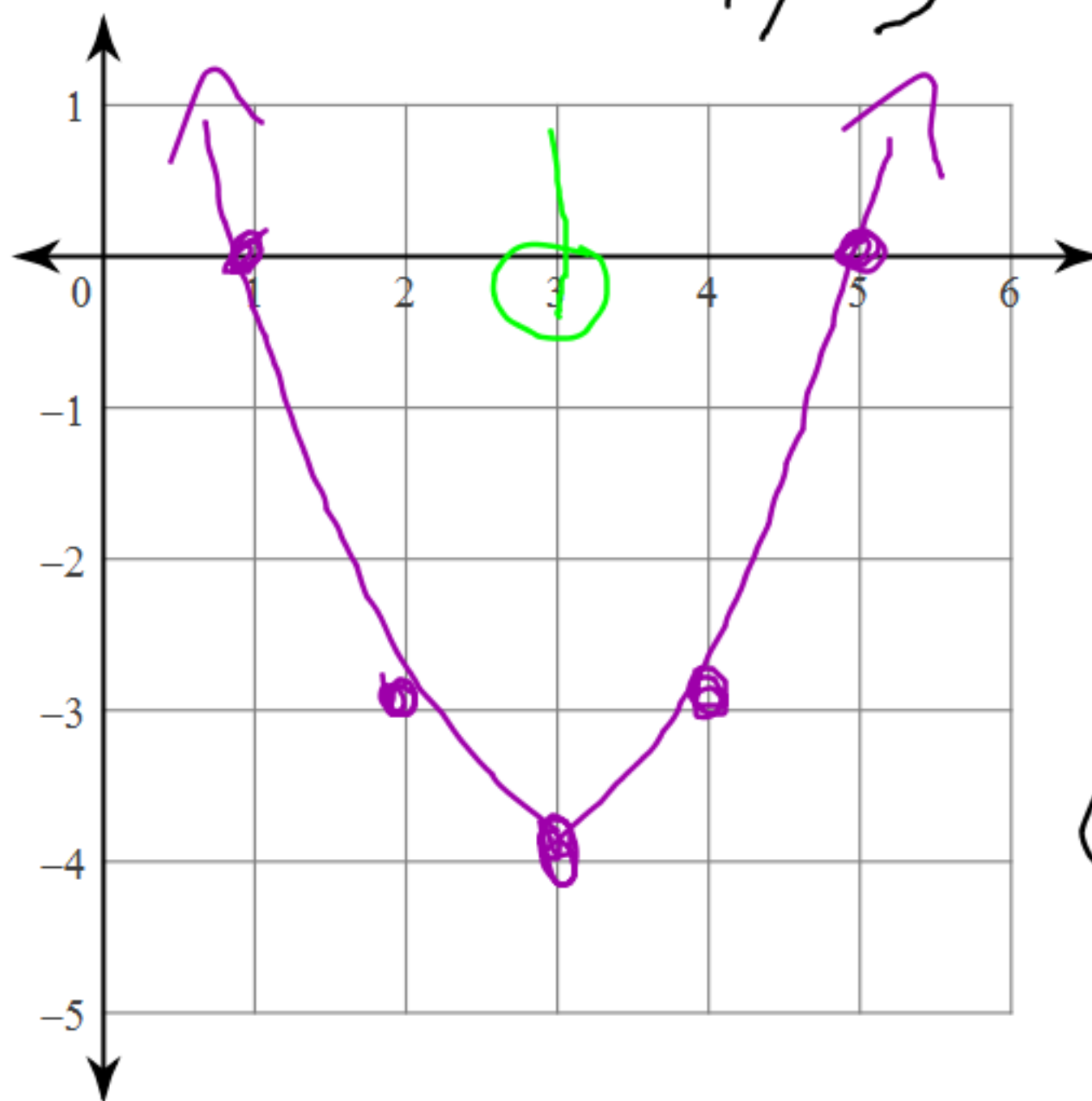
vertex (2, -2)

Sketch the graph of each function.

3)

$$y = x^2 - 6x + 5$$

$$\begin{array}{r} \textcircled{x} \ 5 \\ \textcircled{+} \ -6 \\ \hline -1, -5 \end{array}$$



① Find zeroes

$$y = (x - 1)(x - 5)$$

$$\begin{array}{l} x - 1 = 0 \\ x = 1 \end{array} \quad \text{and} \quad \begin{array}{l} x - 5 = 0 \\ x = 5 \end{array}$$

s.s. $\{1, 5\}$

② y-intercept

$$y = (0)^2 - 6(0) + 5$$

$$y = 5$$

$$(0, 5)$$

③ vertex

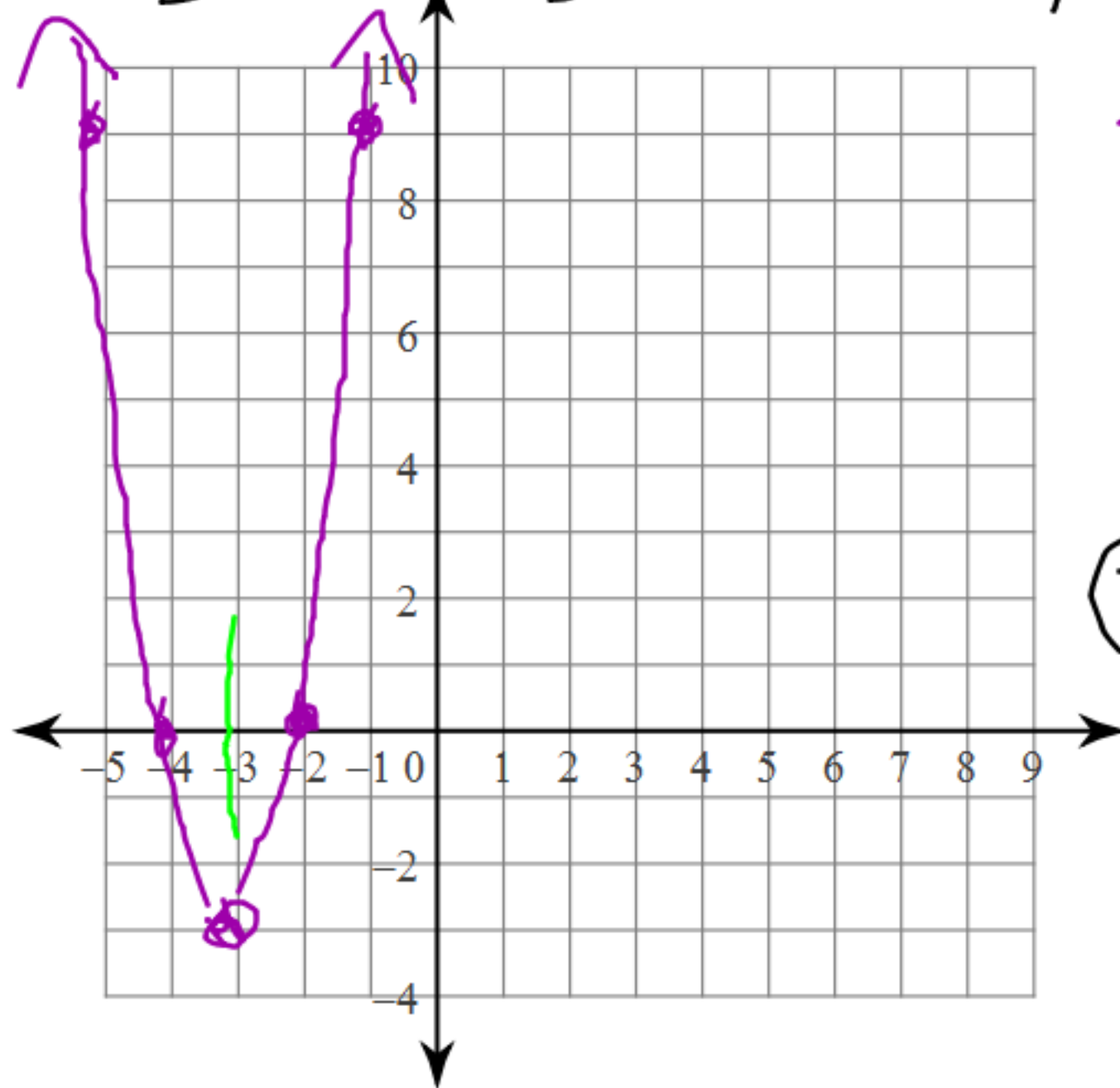
$$y = 3^2 - 6(3) + 5$$

$$y = -4$$

$$(3, -4)$$

Sketch the graph of each function.

4) $y = \frac{3x^2}{3} + \frac{18x}{3} + \frac{24}{3}$



① Zeros

$$y = 3(x^2 + 6x + 8)$$

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

$x = -4$ $x = -2$

② y-intercept

$$y = 3(0)^2 + 18(0) + 24$$

$$y = 24 \quad (0, 24)$$

③ vertex

$$y = 3(-3)^2 + 18(-3) + 24$$

$$y = 27 - 54 + 24$$

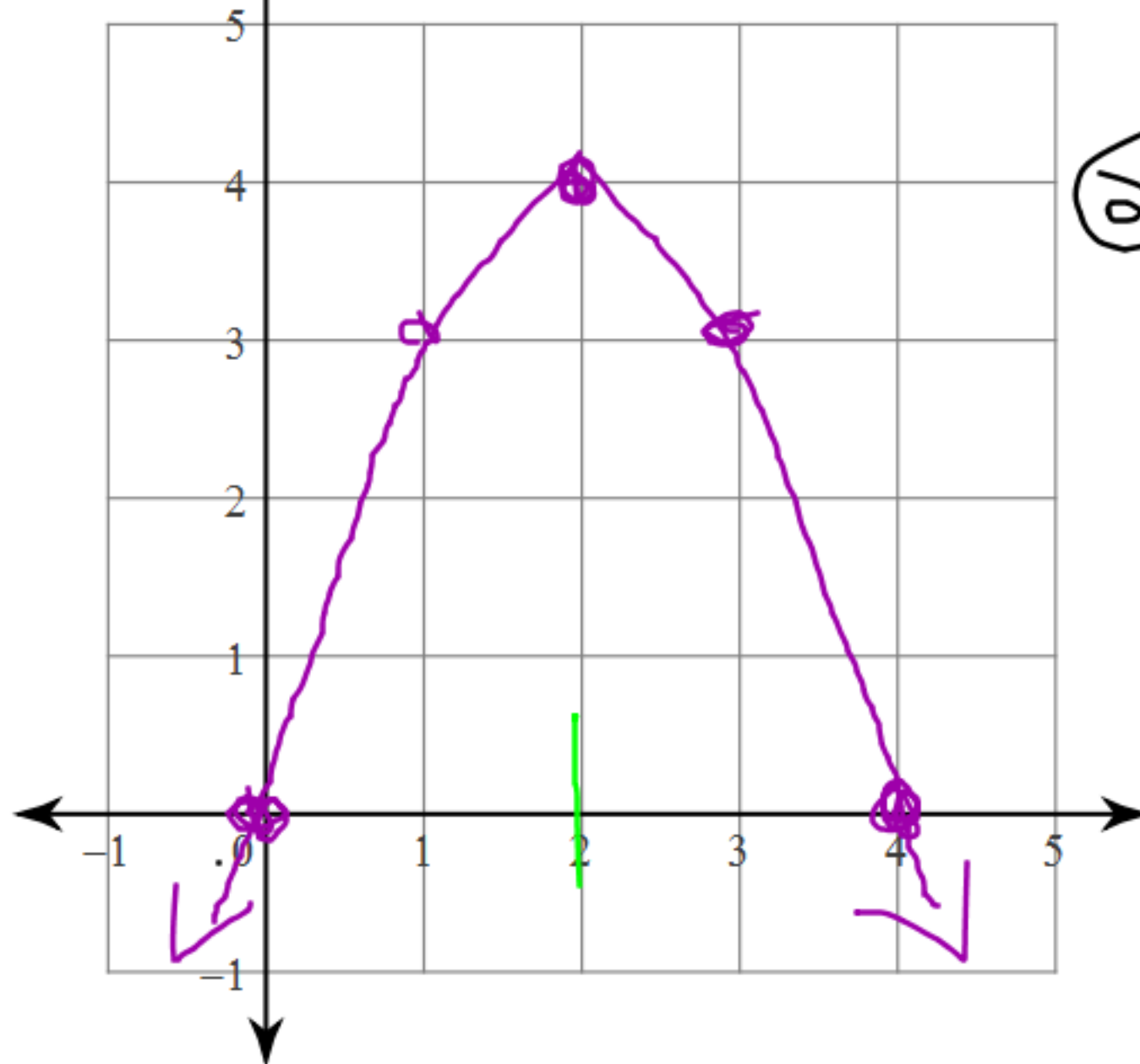
$$y = -3$$

$(-3, -3)$



Sketch the graph of each function.

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



① Find zeroes:

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

$$-x = 0 \quad x - 4 = 0$$

$$x = 0 \quad x = 4$$

S.S. $\{0, 4\}$

② Find y-intercept

$$y = -(0)^2 + 4(0)$$

$$y = 0$$

$$(0, 0)$$

③ Vertex (a.o.s)

$$y = -(2)^2 + 4(2)$$

$$y = -4 + 8 \quad \text{vertex } (2, 4)$$