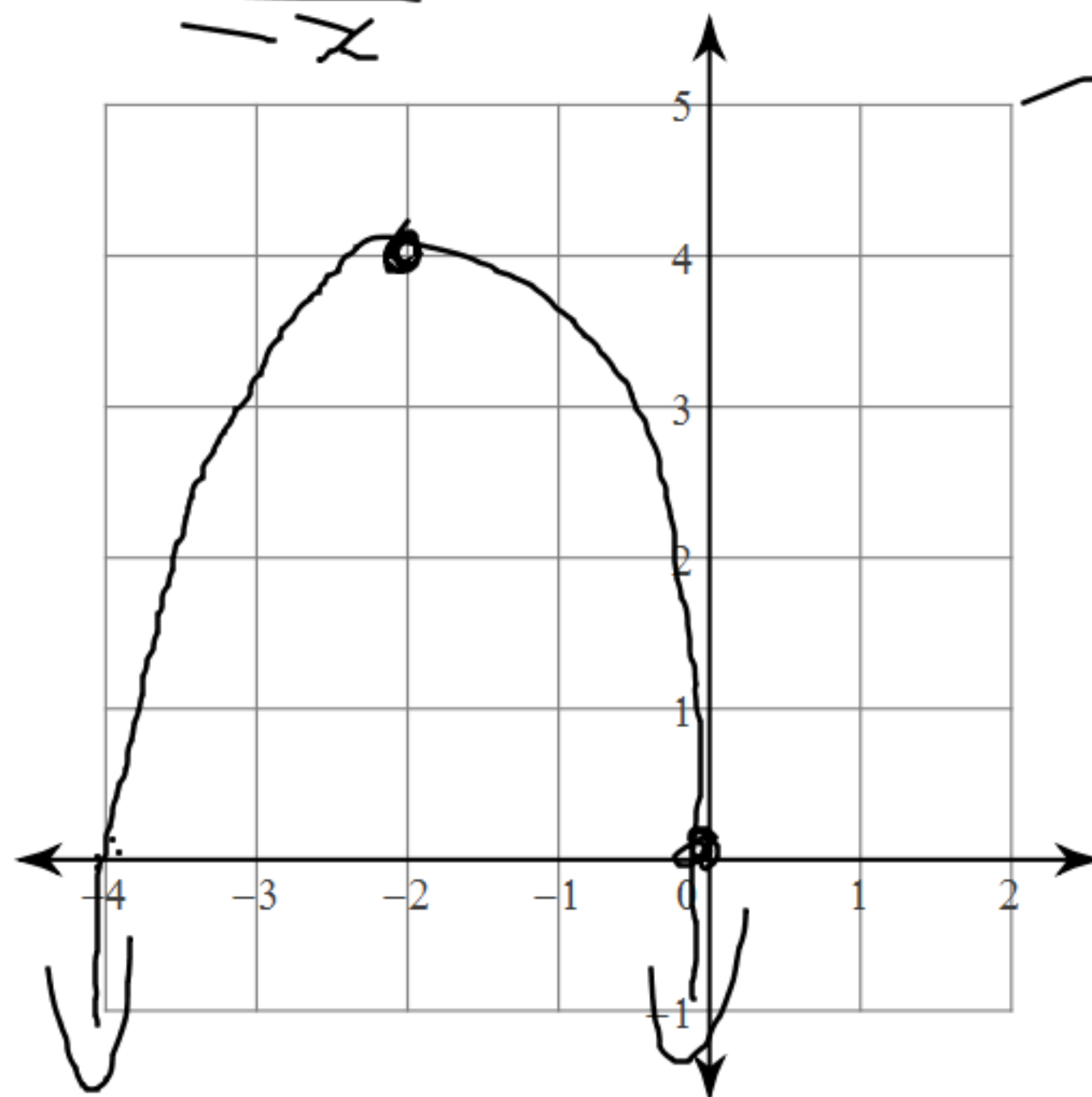


Sketch the graph of each function.

$$7) \ y = -x^2 - 4x$$



$$-x(x+4)$$

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

$$y = \cancel{(-4)} - 4(0)$$

$$y = 0$$

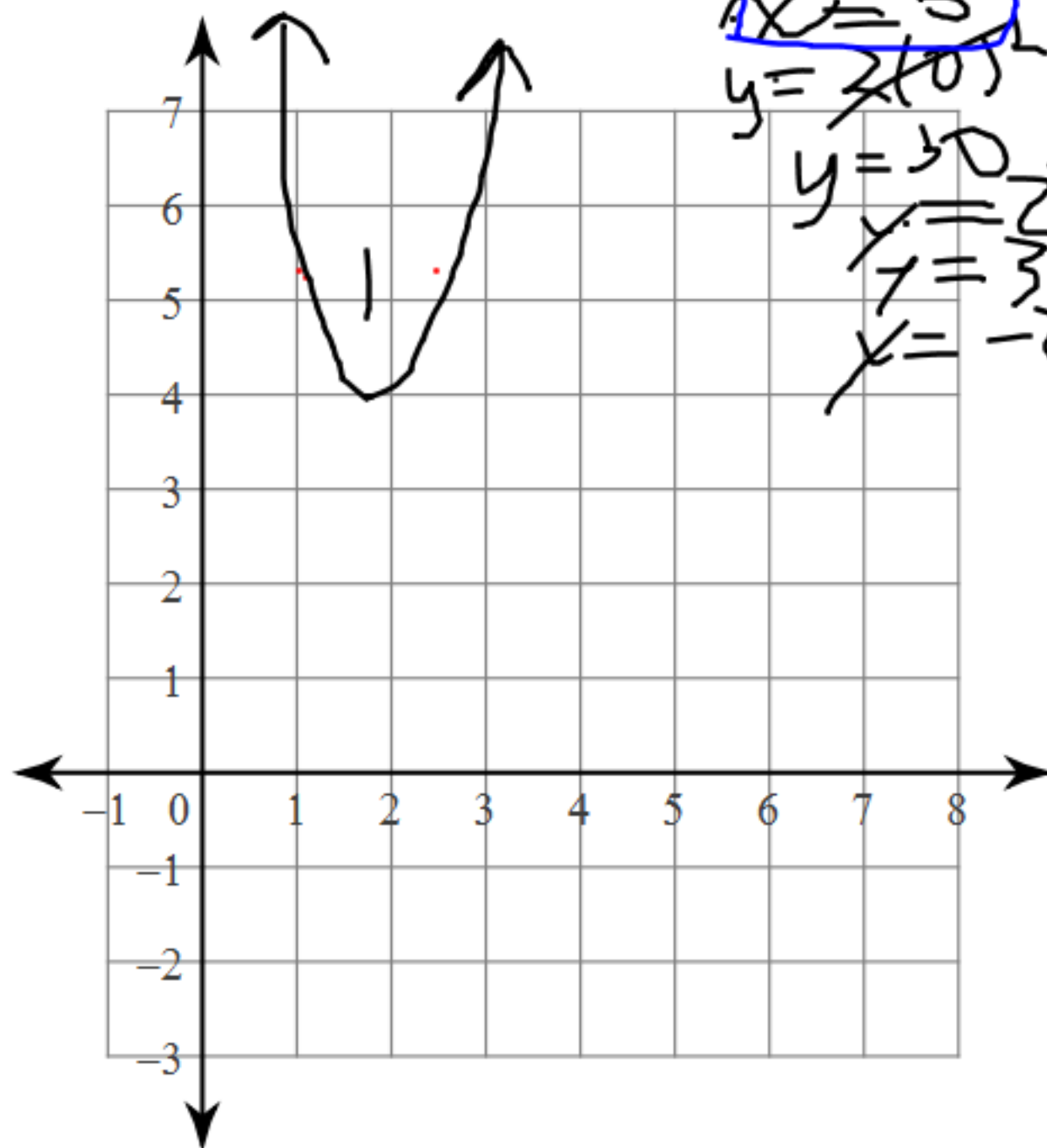
$$y = -(2)^2 - 4(-2)$$

$$y = -4 + 8$$

$$y = 4$$

Sketch the graph of each function.

8) $y = 2x^2 - 16x + 30$



$y = (x-5)(x-3)$
 $x-5=0 \quad x-3=0$
 $x=5 \quad x=3$
 $y = 2(0)^2 - 16(0) + 30$
 $y = 30$
 $y = 2(4)^2 - 16(4) + 30$
 $y = 32 - 64 + 30$
 $y = -2$

Section 5.5

#1 a) ^{zeros} -2, 3

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

$$x - \cancel{1}^{+1} = 0$$

$$x = 1$$

$$x + \cancel{2}^{-2} = 0$$

$$x = -2$$

$$SS = \{1, -2\}$$

#4 a) $x^2 + 8x + 15$

$\otimes 15$
 $\oplus 8$

$(x+3)(x+5)$

1, 15

$x + \overset{-3}{\cancel{3}} = 0$ $x + \overset{-5}{\cancel{5}} = 0$ $\textcircled{5, 5}$

$x = -3$

$x = -5$

$SS = \{-3, -5\}$

Homework <

$\Rightarrow -5$, 6 is DOWN 5