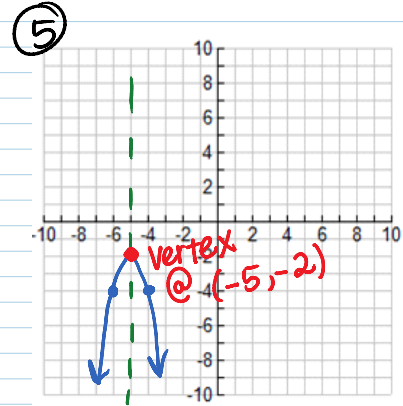
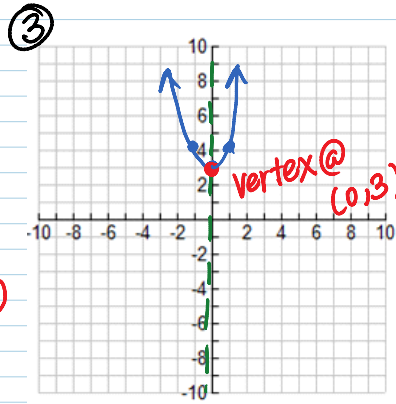
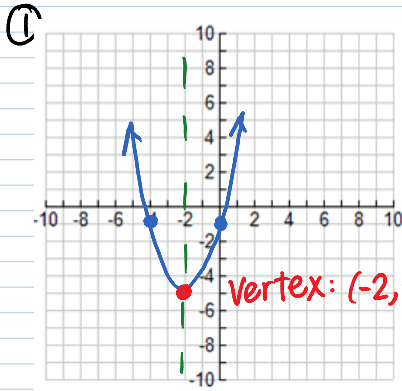


p. 670) 1-13 odd



⑦  $y = (x-6)^2 + 0$   
 Vertex:  $(6, 0)$   
 A of S:  $x = 6$

⑨  $y = -(x-5)^2 + 4$   
 Vertex:  $(5, 4)$   
 a of S:  $x = 5$

⑪  $y = -3(x+1)^2 + 2$   
 Vertex:  $(-1, 2)$   
 a of S:  $x = -1$

⑬  $y = \frac{1}{4}(x+6)^2 + 1$

⑦  $y = x^2 - 12x + 36$  vertex @  $(6, 0)$   
 $y = (x-6)^2 + 0$  A. of S.  $x = 6$

⑨  $y = (-x^2 + 10x) - 21$   $-\frac{10}{2} = (-5)^2 = 25$   
 $y = -(x^2 - 10x) - 21$   
 $y - 25 = -(x^2 - 10x + 25) - 21$   
 $y - 25 = -(x-5)^2 - 21$   
 $+25 \qquad +25$   
 $y = -(x-5)^2 + 4$   
 vertex @  $(5, 4)$   
 a. of S. @  $x = 5$

⑪  $y = (-3x^2 - 6x) - 1$   
 $y = -3(x^2 + 2x) - 1$   $\frac{2}{2} = 1^2 = 1$   
 $y - 3 = -3(x^2 + 2x + 1) - 1$   
 $y - 3 = -3(x+1)^2 - 1$  vertex @  $(-1, 2)$   
 $+3 \qquad +3$  A of S @  $x = -1$   
 $y = -3(x+1)^2 + 2$

⑬  $y = a(x+6)^2 + 1$   
 $5 = a(-2+6)^2 + 1$   
 $5 = a(4)^2 + 1$

$y = \frac{1}{4}(x+6)^2 + 1$

$$5 = a(4)^2 + 1$$

$$\frac{4}{16} = \frac{16a}{16}$$

$$\frac{1}{4} = a$$

$$y = \frac{1}{4}(x+6)^2 + 1$$