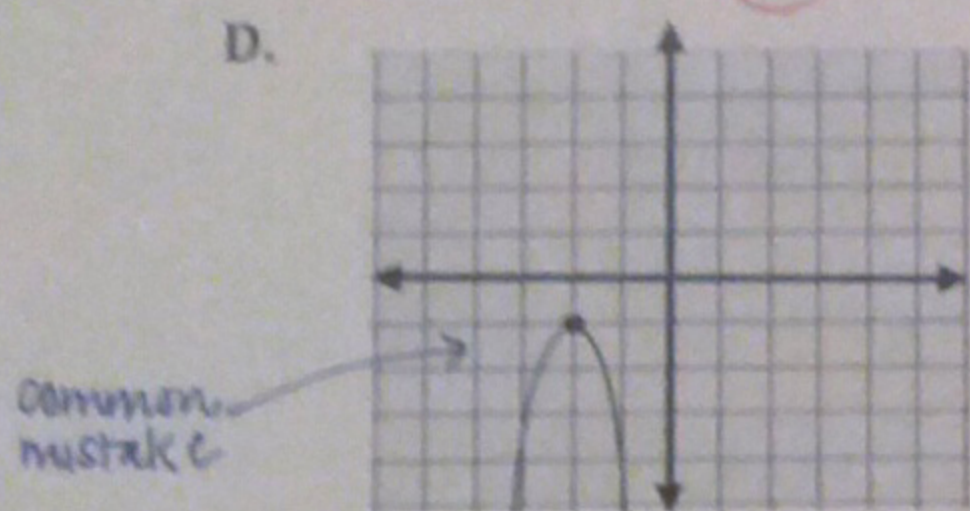
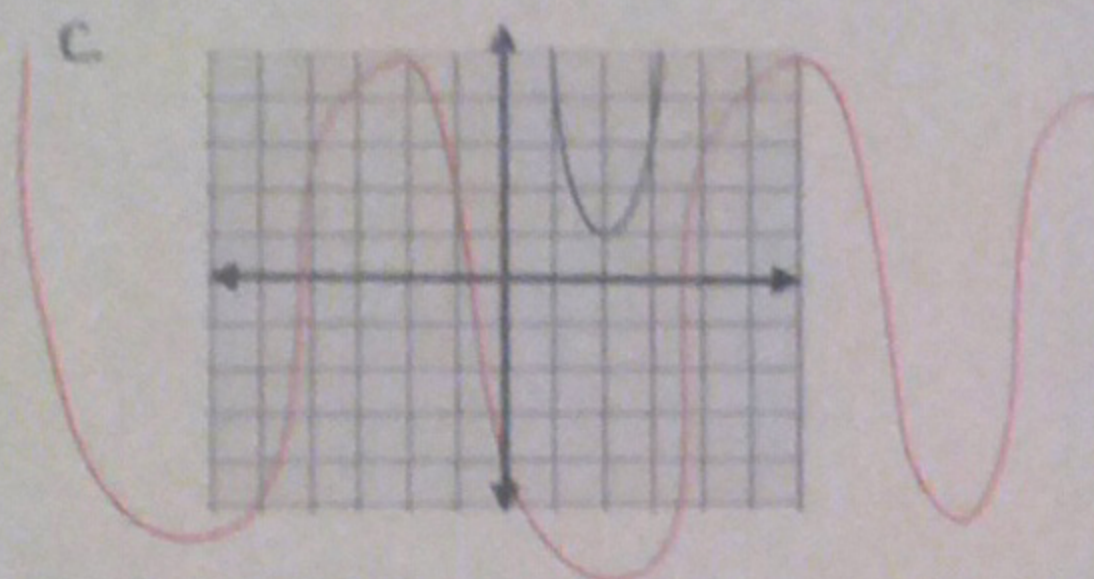
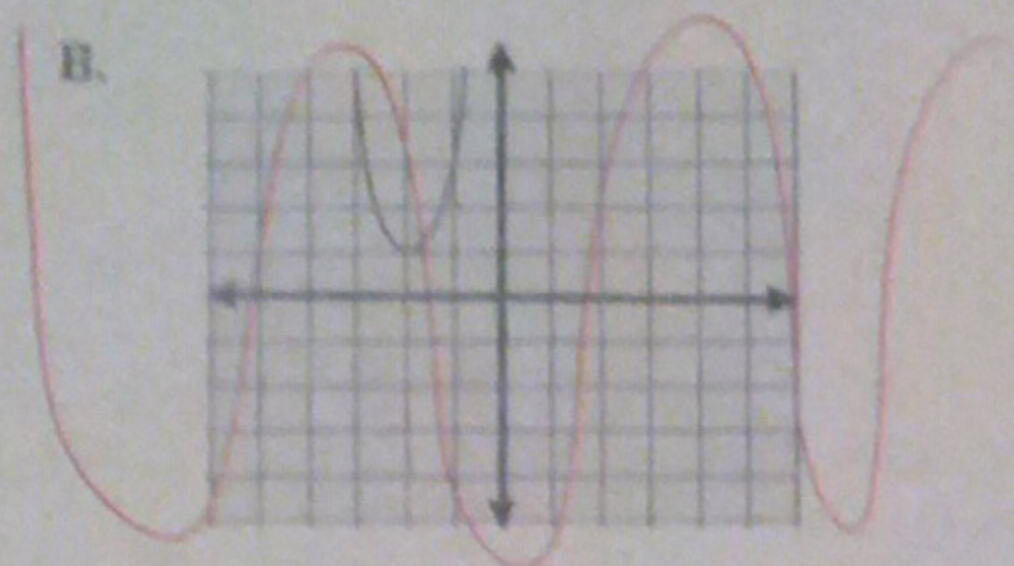
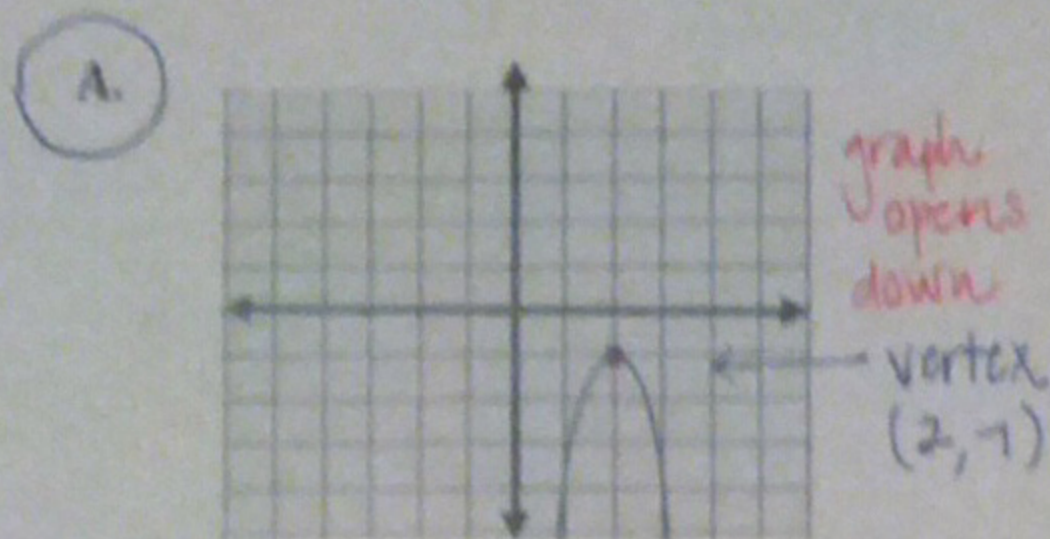
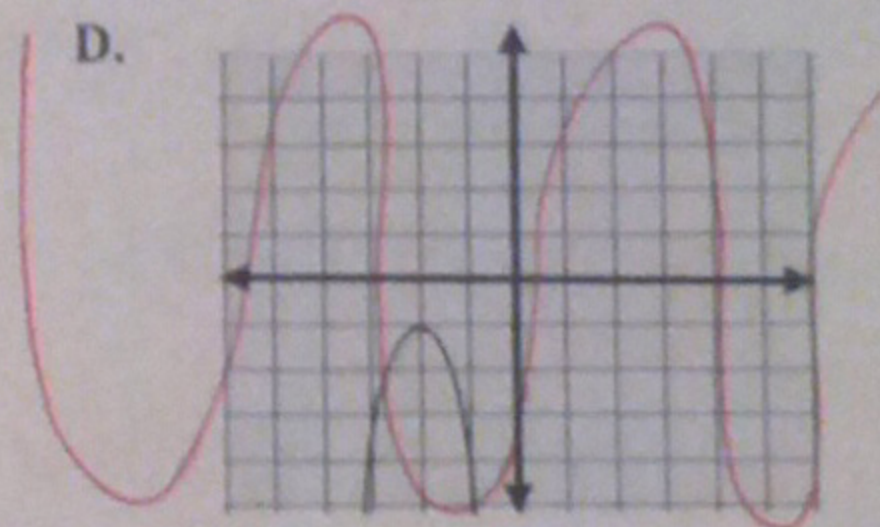
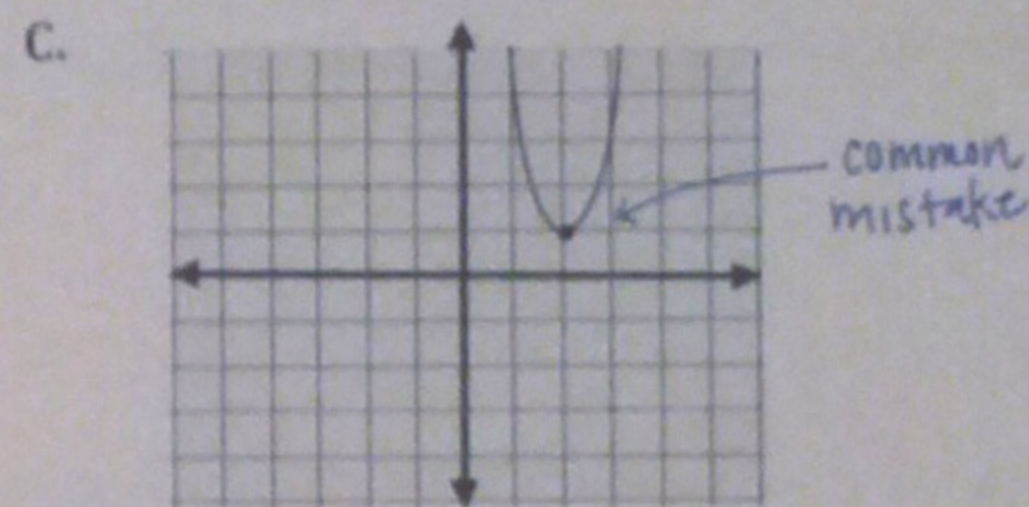
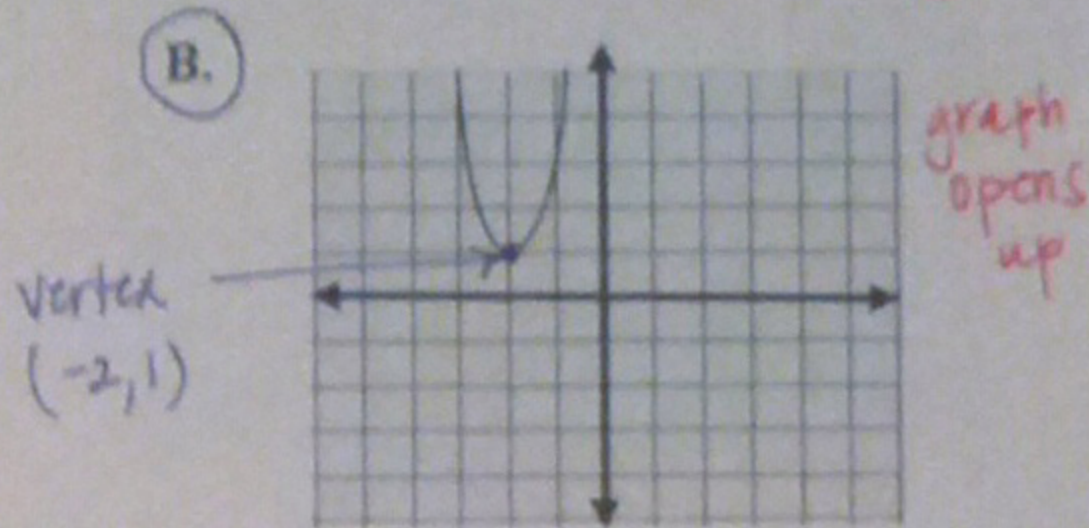
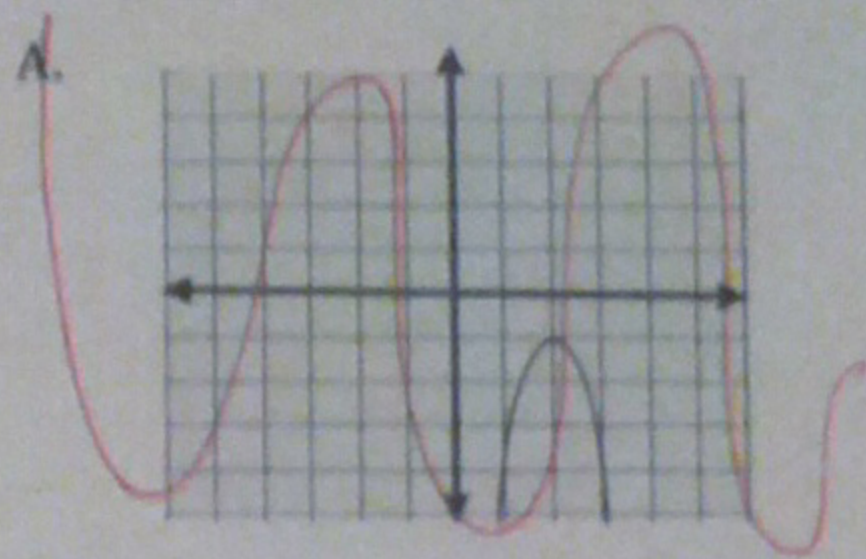


Section 3: Graphing in Vertex Form

35. Which of the following is the graph of the equation:  $y = -(x - 2)^2 - 1$ ?



36. Which of the following is the equation of the equation:  $y = (x + 2)^2 + 1$ ?



$$y = a(x-h)^2 + k$$

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

\* remember  
h is opposite x

$a = -1$  ← negative, graph is down  
 $h = 2$   
 $k = -1$  ⇐ (2, -1)

$$y = a(x-h)^2 + k$$

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

\* remember  
h is opposite x

$a = 1$  ← positive, graph opens up  
 $h = -2$   
 $k = 1$  ⇐ (-2, 1)