

# Day 04 HW Graphing Quadratics in Vertex Form

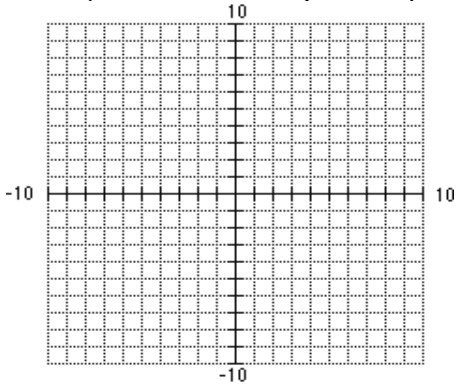
Name \_\_\_\_\_

Date \_\_\_\_\_ Block \_\_\_\_\_

Watch out for the ☺ problems!

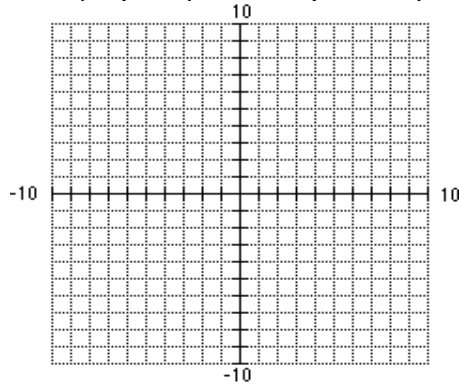
Graph each function without a calculator. State the vertex and its domain and range in interval notation.

1.  $y = x^2$  V( )



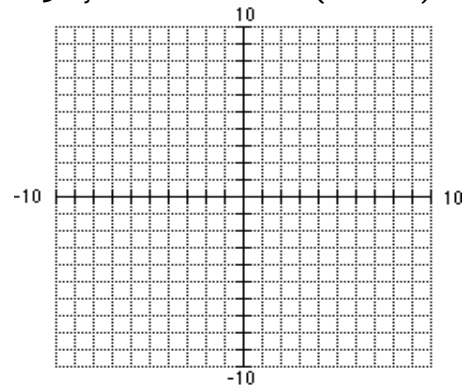
D: \_\_\_\_\_ R: \_\_\_\_\_

2.  $y = (x - 2)^2$  V( )



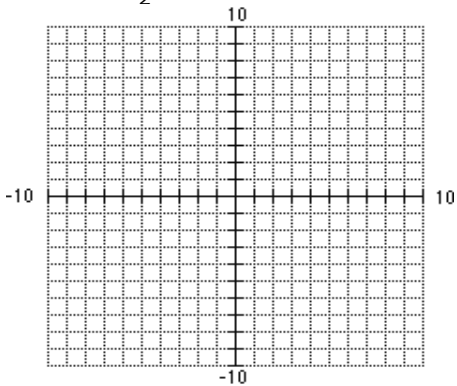
D: \_\_\_\_\_ R: \_\_\_\_\_

3.  $y = x^2 - 2$  V( )



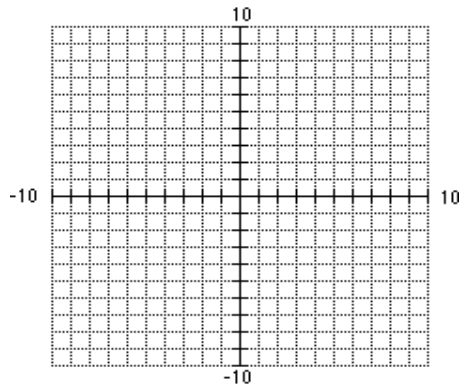
D: \_\_\_\_\_ R: \_\_\_\_\_

4.  $y = \frac{1}{2}x^2 - 3$  V( )



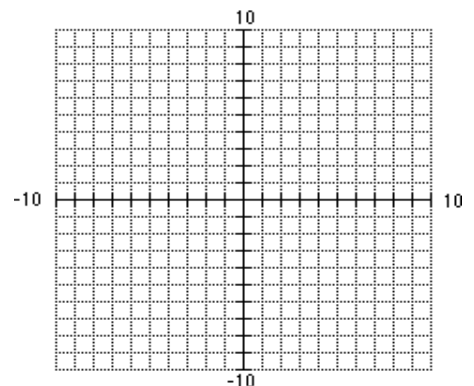
D: \_\_\_\_\_ R: \_\_\_\_\_

5.  $y = -2(x - 3)^2$  V( )



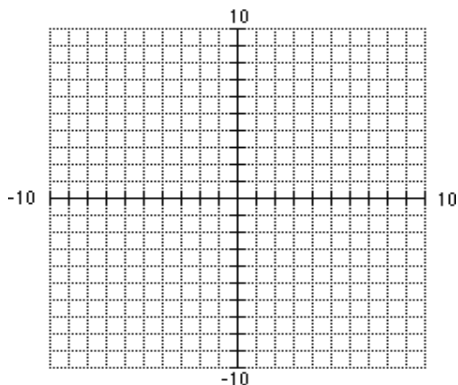
D: \_\_\_\_\_ R: \_\_\_\_\_

6.  $y = 2x^2 - 8$  V( )



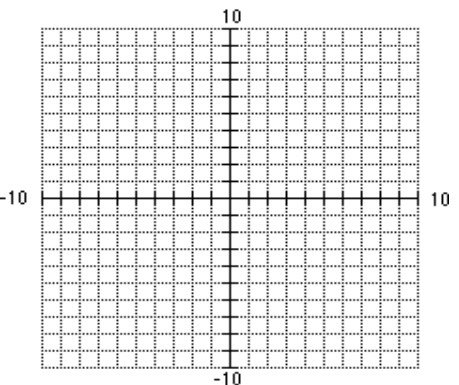
D: \_\_\_\_\_ R: \_\_\_\_\_

☺ 7.  $y = -\frac{1}{3}|x - 6| + 5$  V( )



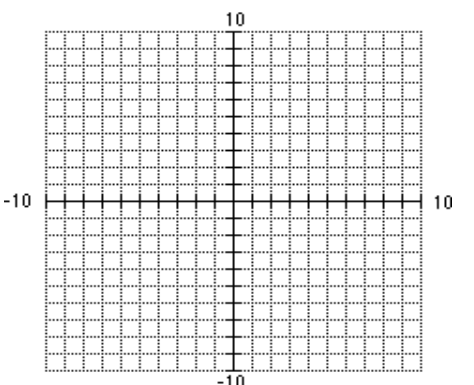
D: \_\_\_\_\_ R: \_\_\_\_\_

8.  $y = 3(x - 1)^2 - 5$  V( )



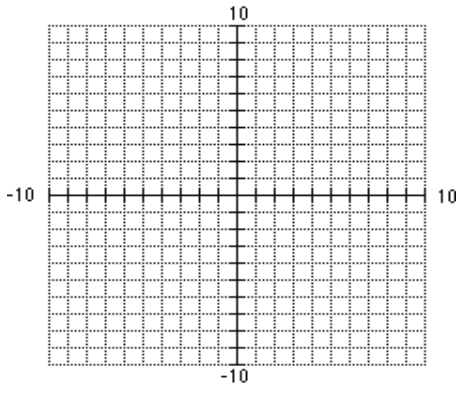
D: \_\_\_\_\_ R: \_\_\_\_\_

9.  $y = -x^2 + 3$  V( )



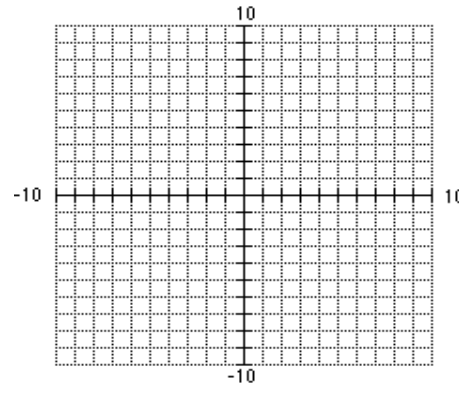
D: \_\_\_\_\_ R: \_\_\_\_\_

10.  $y = (x - 1)^2 - 4$  V( )



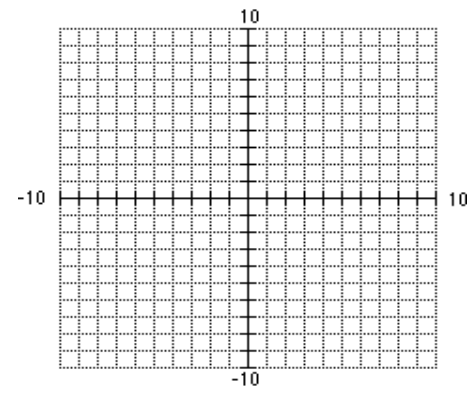
D: \_\_\_\_\_ R: \_\_\_\_\_

11.  $y = -x^2 + 5$  V( )



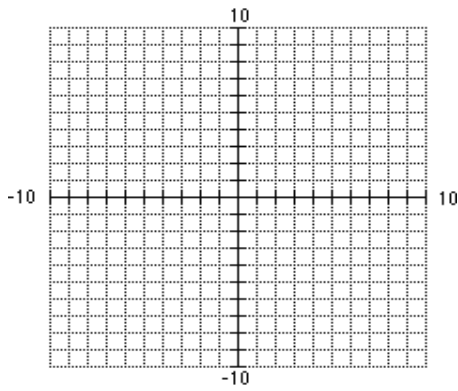
D: \_\_\_\_\_ R: \_\_\_\_\_

☺12.  $y = (x + 4) - 8$  V( )



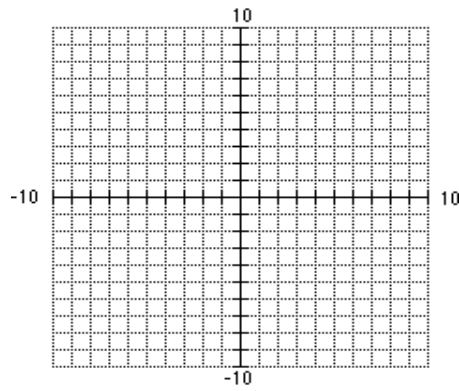
D: \_\_\_\_\_ R: \_\_\_\_\_

☺13.  $y = (x + 2) - 3$  V( )



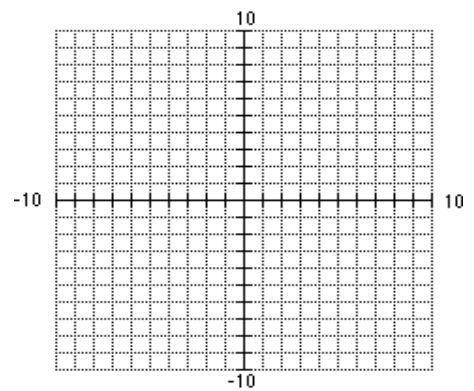
D: \_\_\_\_\_ R: \_\_\_\_\_

14.  $y = -2(x + 3)^2$  V( )



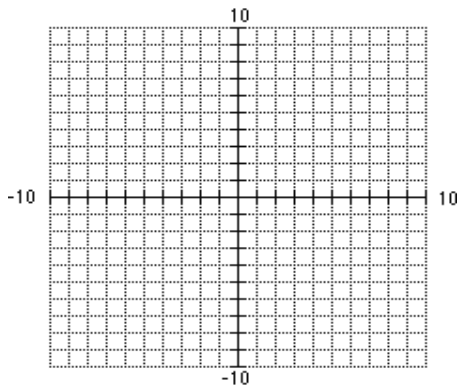
D: \_\_\_\_\_ R: \_\_\_\_\_

15.  $y = \frac{1}{2}(x - 3)^2 - 4$  V( )



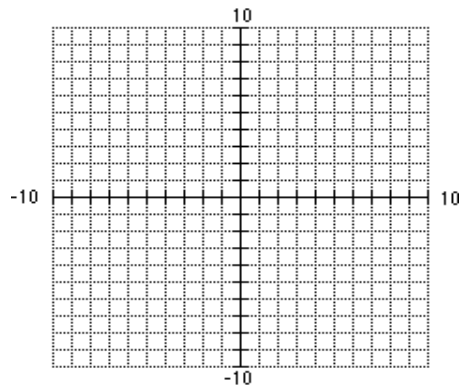
D: \_\_\_\_\_ R: \_\_\_\_\_

16.  $y = -\frac{1}{2}x^2$  V( )



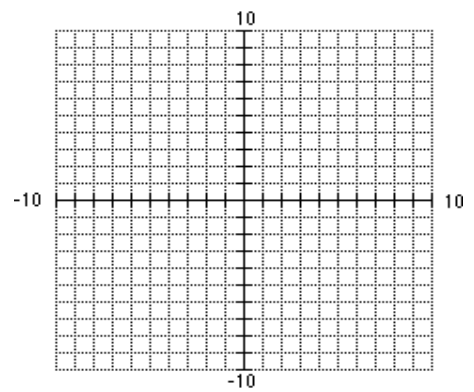
D: \_\_\_\_\_ R: \_\_\_\_\_

17.  $y = 2x^2 - 6$  V( )



D: \_\_\_\_\_ R: \_\_\_\_\_

☺18.  $y = \frac{2}{3}|x - 2| - 4$  V( )



D: \_\_\_\_\_ R: \_\_\_\_\_