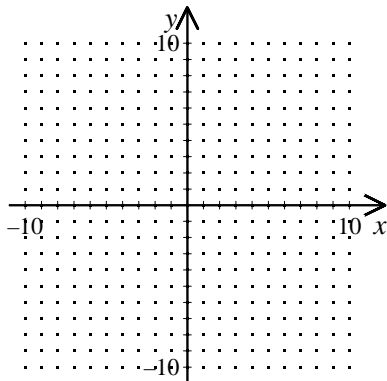


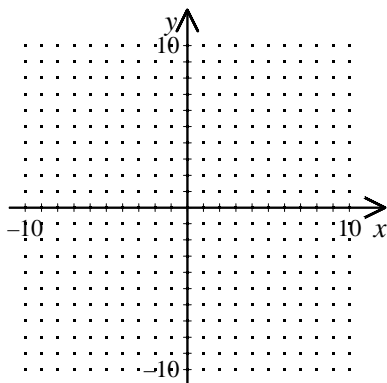
NAME: _____

1. Use the graph of $y = x^2$ to graph the equation $y = \frac{1}{2}x^2 - 10$.



[1] _____

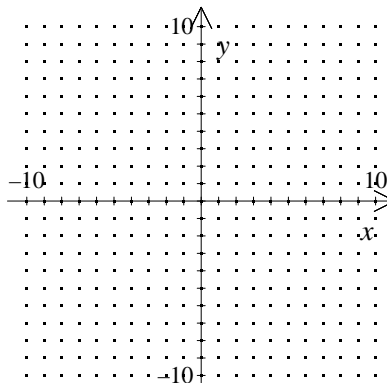
2. Use the graph of $y = x^2$ to graph the equation $y = \frac{1}{2}x^2 - 4$.



[2] _____

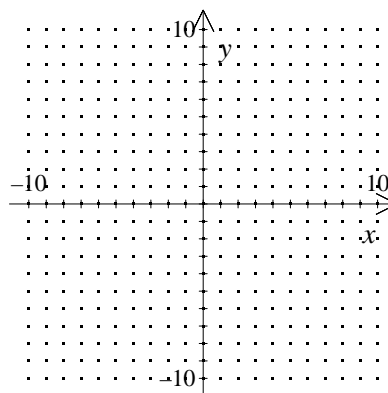
Graph:

3. $y = (x - 3)^2 + 1$



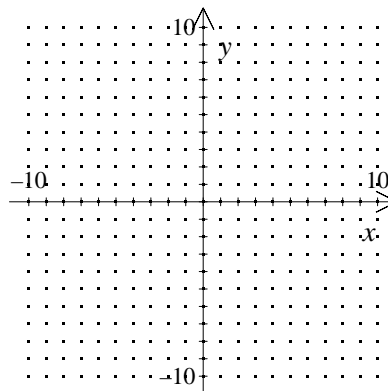
[3] _____

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



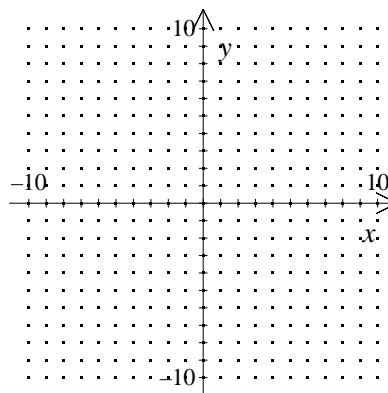
[4] _____

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



[5] _____

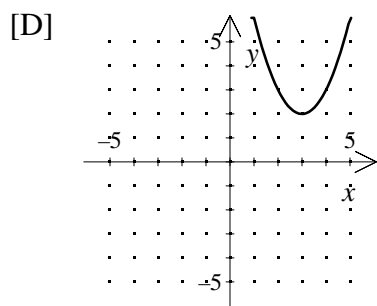
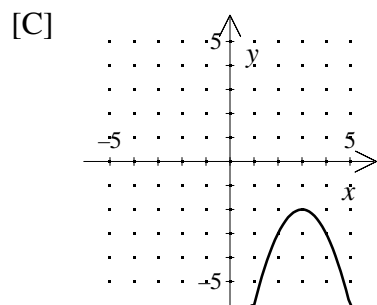
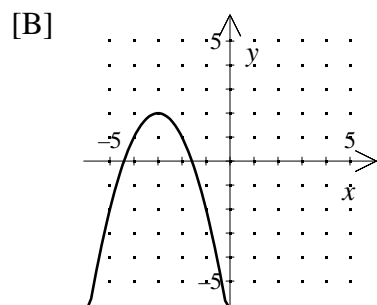
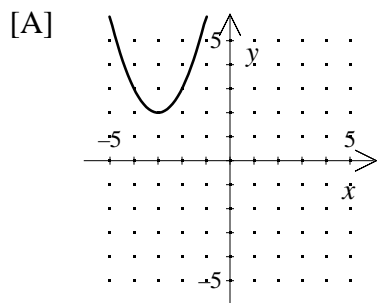
6. Graph the parabola $y = 3.6(x - 1)^2 - 4$. Find its minimum or maximum value.



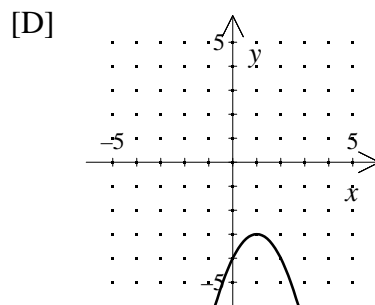
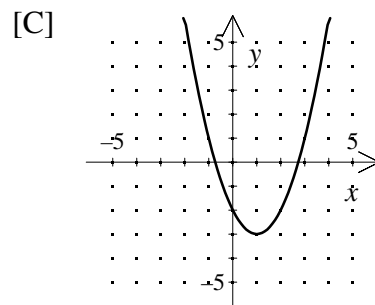
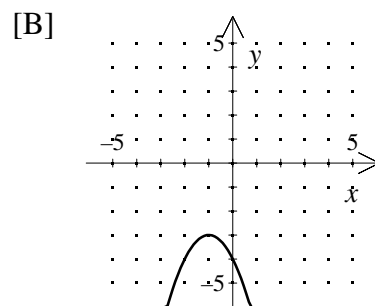
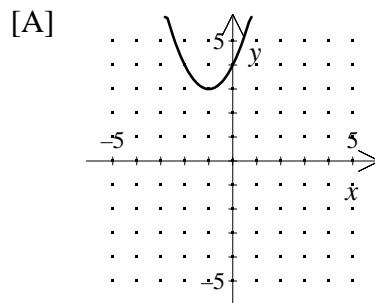
[6] _____

NAME: _____

7. Which of the following is the graph of the equation $y = (x+3)^2 + 2$?

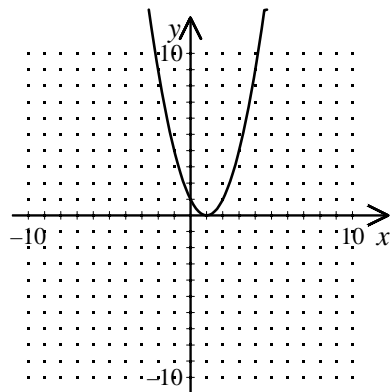


8. Graph the parabola: $y = -(x-1)^2 - 3$

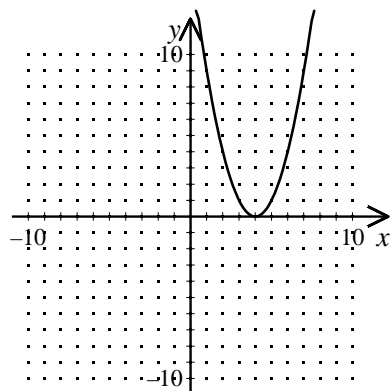


[7] _____

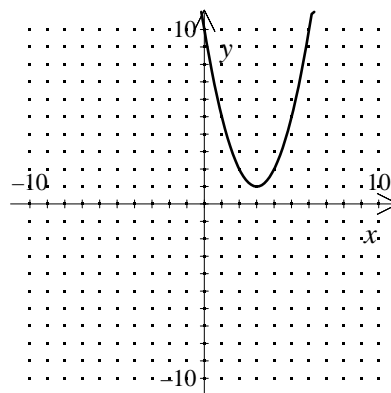
[8] _____



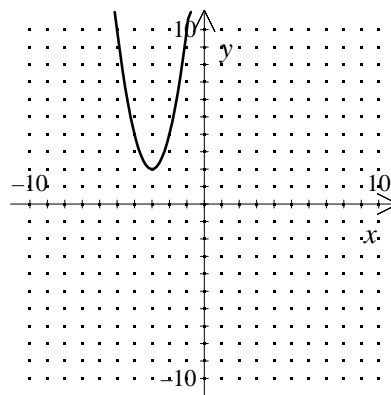
[1]



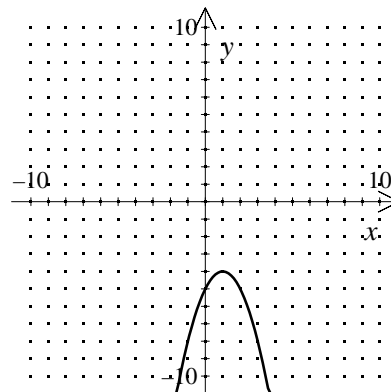
[2]



[3]



[4]



[5]

Check students' graphs. Its minimum value is

[6] -4.

[7] A

[8] D