

Practice 18.1

Name _____

Find the vertex of the parabola.

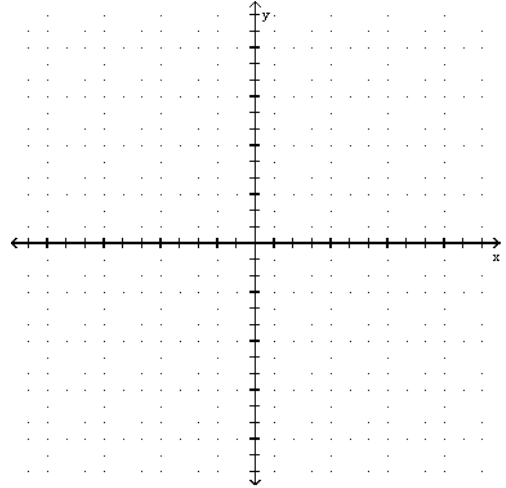
1) $f(x) = 3x^2 - 2$

2) $f(x) = 5x - x^2$

3) $f(x) = \frac{1}{3}x^2 - \frac{2}{3}x - \frac{11}{3}$

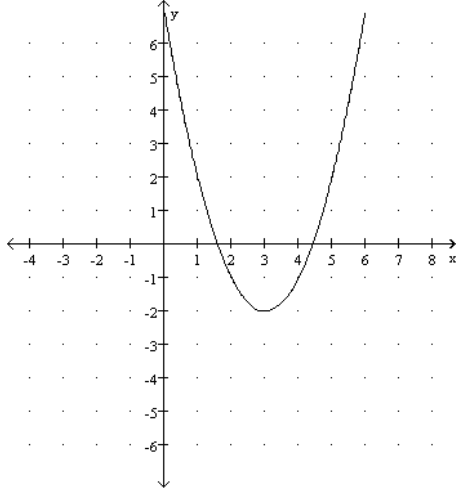
Graph.

7) $f(x) = x^2 + 2x - 1$

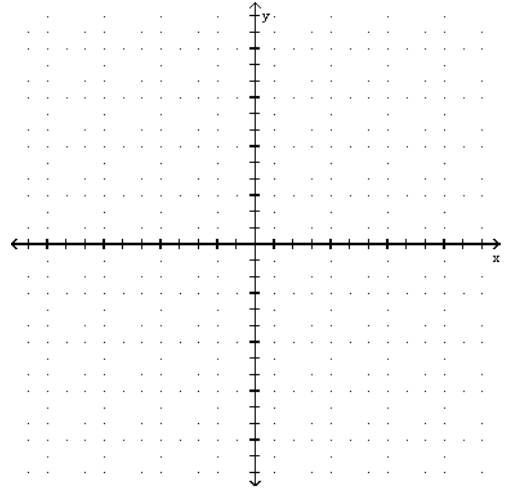


Use the graph of f to evaluate each expression.

4) $f(4), f(1)$



8) $f(x) = 3x^2 + 2x - 2$



Find the minimum y-value on the graph of $y = f(x)$.

5) $f(x) = x^2 - 12x$

Find the maximum y-value on the graph of $y = f(x)$.

6) $f(x) = 4x - x^2$

Answer Key

Testname: WKS_18.1

1) $(0, -2)$

2) $\left(\frac{5}{2}, \frac{25}{4}\right)$

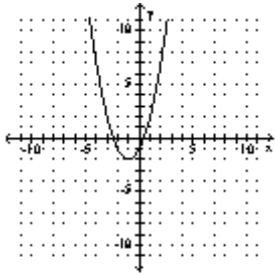
3) $(1, -4)$

4) $-1, 2$

5) -36

6) 4

7)



8)

