

HW #11: 3.1.2 p. 131 #3-32, 3-36

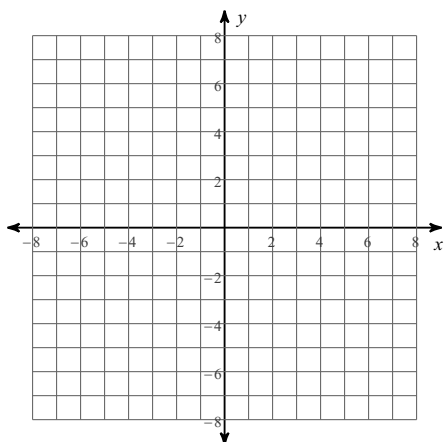
Factor each completely.

1) $2x^2 + 23x + 63$

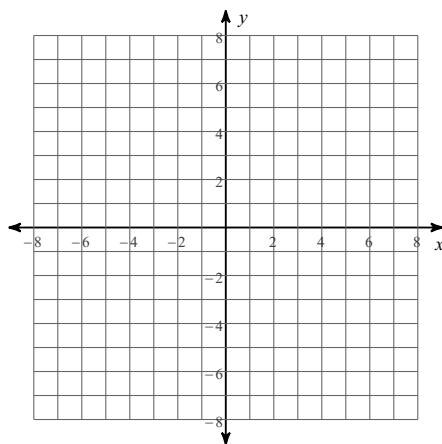
2) $8p^2 + 14p - 9$

Graph each equation.

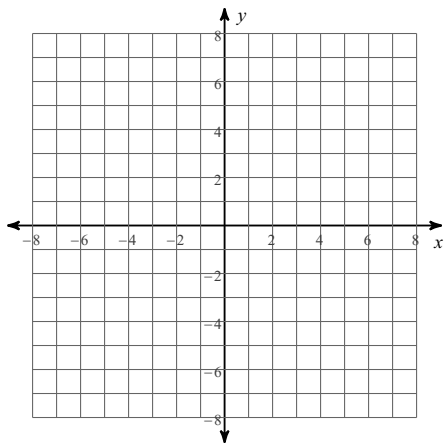
3) $y = (x - 5)^2 - 5$



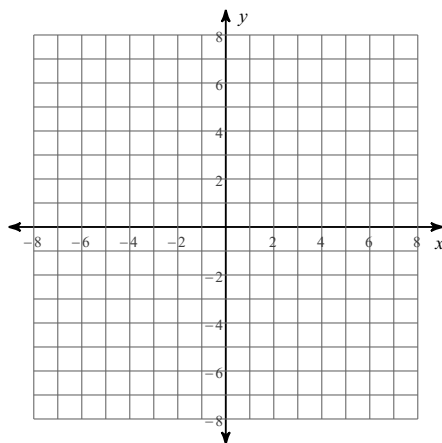
4) $y = -x^2 + 2$



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



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



Convert to vertex (graphing) form.

7) $y = x^2 - 10x + 21$

8) $y = 2(x + 9)(x + 5)$

Convert to intercept form.

9) $y = -2(x - 3)^2 + 32$

Convert to standard form.

10) $y = 2(x - 6)^2$