

## 10.6 Worksheet

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $12b^2 = 4 + b$

2)  $4x^2 + 9x = 90$

3)  $2n^2 = -8 - 10n$

4)  $6x^2 = -4$

5)  $5n^2 = 3$

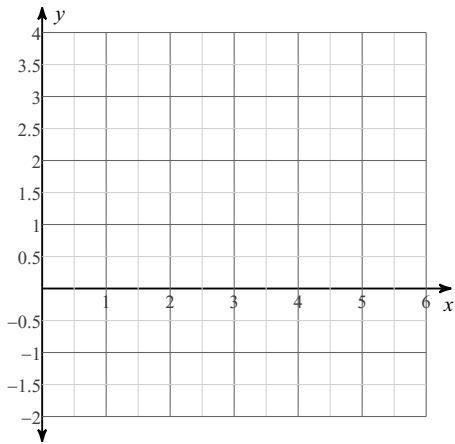
6)  $9x^2 = 1 - 5x$

7)  $3x^2 - 98 = 7x$

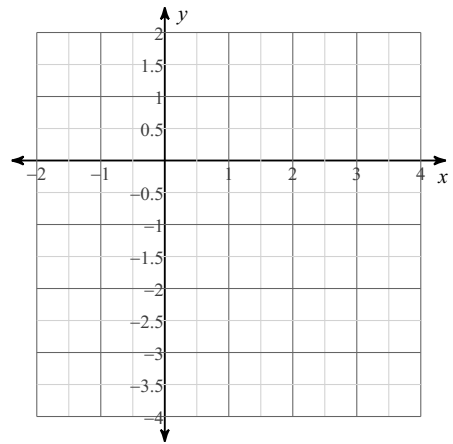
8)  $3x^2 = 65 - 2x$

Sketch the graph of each function.

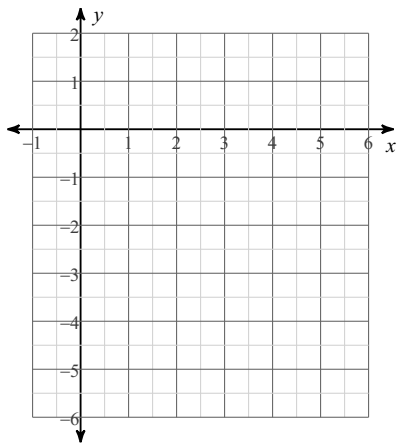
9)  $y = -(x - 2)^2 + 3$



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



11)  $y = -\frac{1}{2}x^2 + 4x - 9$



12)  $y = x^2 + 6x + 8$

