

## Section 3.4 – Graphing Quadratic Equations

### Problem Set 2

Find the  $x$ -intercepts and  $y$ -intercept of the following quadratic equations.

1.  $y = -9x^2 - 9x + 8$

2.  $y = 14x^2 + 9x$

3.  $y = 12x^2 - 7x$

4.  $y = -14x^2 - x - 9$

5.  $y = -x^2 - 6x + 7$

6.  $y = 15x^2 + 4x - 3$

7.  $y = -3x^2 + 14x + 9$

8.  $y = -10x^2 - 8x + 6$

9.  $y = -3x^2 + 8x - 1$

10.  $y = -6x^2 - 5x + 4$

11.  $y = 12x^2 + 7x + 14$

12.  $y = -15x^2 + 9$

Graph the following equations.

1.  $y = 12x^2 - 2x$

2.  $y = -13x^2 - 13x + 14$

3.  $y = 11x^2 - 8x - 3$

4.  $y = -10x^2 + 7x + 4$

5.  $y = 4x^2 + 12x$

6.  $y = -5x^2 - 8x - 7$

7.  $y = -2x^2 + 15$

8.  $y = -13x^2 - 13x - 1$

9.  $y = 14x^2 + 14x$

10.  $y = -8x^2 - 9x - 12$

11.  $y = -11x^2 - 2x$

12.  $y = -3x^2 - 2x + 10$