

Section 3.4 – Graphing Quadratic Equations

Problem Set 1

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

1. $y = 15x^2 + 14x + 11$

2. $y = 14x^2 - 8x + 4$

3. $y = 8x^2 - 13x - 9$

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

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

6. $y = 4x^2 - 13x - 13$

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

8. $y = -10x^2 - 9x - 1$

9. $y = 4x^2 - 7x - 1$

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

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

12. $y = 13x^2 + 2x - 15$

Graph the following equations.

13. $y = 14x^2 - 6x - 13$

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

15. $y = 10x^2 + 5x - 5$

16. $y = 11x^2 + 6x - 5$

17. $y = 5x^2 + 13x - 9$

18. $y = 9x^2 + 13x - 10$

19. $y = -6x^2 + 13$

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

21. $y = -4x^2 + 2x - 3$

22. $y = 6x^2 - 3x - 3$

23. $y = -3x^2 - 9x - 3$

24. $y = -7x^2 + 11x - 2$