

Section 3.1 – Solving Polynomial Equations

Problem Set 1

Solve the following equations.

1. $a^2 + a - 36 = 3a - 1$

2. $6b^2 - 65b + 163 = -b + 3$

3. $-2a^2 + 10a + 51 = -3a^2 - 4a + 3$

4. $x^2 + 11x + 18 = 0$

5. $y^2 - 1 = 0$

6. $x^2 - x - 30 = 0$

7. $b^2 + 14b + 40 = 0$

8. $-5x^2 + 103x + 158 = 4x^2 - 2x + 2$

9. $-24a^2 + 50a + 15 = 3a^2 + 2a + 3$

10. $-48s^2 + 696s + 360 = 0$

11. $-16x^2 - 156x + 742 = 0$

12. $-16x^2 - 12x + 28 = 0$

13. $-2t - 4 = -t^2 + 4$

14. $-5x^2 + 41x + 228 = 0$

15. $a^2 + 3a + 2 = 0$

16. $-3t^2 - 6t - 8 = -4t^2 - 4t$

17. $a^2 - 14a + 49 = 0$

18. $b^2 + 5b - 24 = 3b$

19. $12x^2 + 105x + 112 = -2x - 3$

20. $-20y^2 + 200y + 105 = 0$

21. $-58t^2 + 318t + 165 = 2t^2 + t + 4$

22. $-270b^2 + 3792b + 2190 = 0$

23. $10x^2 + 180x + 759 = 3x + 3$

24. $5t^2 + 5t - 36 = 4t^2$