

Section 3.1 – Solving Polynomial Equations

Problem Set 2

Solve the following equations.

1. $4s^2 + 6s - 27 = 3s^2$

2. $-12x^2 - 22x + 840 = 0$

3. $x^2 + 17x + 72 = 0$

4. $a^2 + 13a + 30 = 0$

5. $12t^2 - 285t + 1649 = -1$

6. $4s^2 + 9s - 15 = 3s^2 + 3s + 1$

7. $5s^2 - 3s - 74 = 4s^2 - 4s - 2$

8. $a^2 - a - 12 = 0$

9. $3x^2 - 5x - 4 = 2x^2 - x + 1$

10. $18t^2 + 186t + 60 = 0$

11. $s^2 - 4s - 21 = 0$

12. $-15t^2 + 4t + 2720 = 0$

13. $t^2 - 10t + 24 = 0$

14. $t^2 + 10t + 9 = 0$

15. $-16s^2 + 193s + 519 = 4s^2 + 2s + 2$

16. $x^2 - 5x - 39 = -3x - 4$

17. $-120s^2 + 359s + 297 = 0$

18. $63b^2 + 909b + 1713 = 3b^2 - 3b - 3$

19. $30b^2 + 201b + 57 = 2b$

20. $11y^2 + 113y + 30 = 0$

21. $-a^2 - a - 1 = -2a^2 - 2a + 1$

22. $-6a^2 + 23a + 48 = 0$

23. $89s^2 + 1219s + 407 = 2s^2 - 3$

24. $144s^2 + 100s + 14 = -2s - 1$