

Section 3.2 – The Quadratic Equation

Problem Set 2

Use the Quadratic Formula to determine if the following equations can be solved. If they can, use the formula to find their solutions. Use a calculator to give the last three answers to two decimal places.

1. $6s^2 + 3s - 1 = 0$

2. $-3b^2 - 7b = 0$

3. $b^2 - 8b - 7 = 0$

4. $4t^2 - 4t - 5 = 0$

5. $6a^2 + 6a + 1 = 0$

6. $-6s^2 + 9 = 0$

7. $2y^2 + 2y - 5 = 0$

8. $2a^2 - 10a - 3 = 0$

9. $-x^2 - 10x - 7 = 0$

10. $6t^2 - 10t - 1 = 0$

11. $-5x^2 - 10x + 9 = 0$

12. $-8y^2 - 6y = 0$

13. $3t^2 - 7t - 6 = -4t^2 - t - 4$

14. $-2a^2 - 2a + 5 = 2$

15. $9t^2 - 2t - 1 = 4t$

16. $4a^2 - 5a - 6 = 4a^2 - 4a + 3$

17. $4x^2 + 6x - 10 = 4x^2 + 4x$

18. $-4a^2 - 9a - 7 = 0$

19. $5y^2 - 6y + 2 = 0$

20. $-8t^2 + 4t - 3 = 0$

21. $-5s^2 + s - 7 = -4s^2 + 3s - 2$

22. $5y^2 + 5y + 10 = 2y$

23. $6b^2 - b + 10 = -2b^2 - 3b$

24. $7b^2 + 8b + 8 = b^2$