

Section 3.2 – The Quadratic Equation

Problem Set 3

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. $-8s^2 + 3s + 5 = 0$

2. $9x^2 + 7x + 1 = 0$

3. $-8x - 4 = 0$

4. $10b^2 - b - 10 = 0$

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

6. $-6a^2 - 9a = 0$

7. $-9a^2 - 3a + 7 = 0$

8. $10x^2 - 6x - 2 = 0$

9. $7s^2 - 4s - 9 = 0$

10. $4a = 0$

11. $9b^2 - 4b - 9 = 0$

12. $-8y^2 + 4y + 5 = 0$

13. $-y^2 - 5y + 10 = 3y^2 - 3y$

14. $8a^2 + 8a - 6 = 3a^2$

15. $3s^2 + 10s - 13 = -3$

16. $-s^2 - 6s + 7 = -1$

17. $-6a^2 + 8a + 7 = 2a^2 + 2$

18. $-7b^2 + b - 10 = 0$

19. $4a^2 + 7a + 4 = 0$

20. $-5t^2 + t - 3 = 0$

21. $-9a^2 + 3a - 1 = a$

22. $-2x^2 - 4x - 3 = -x^2 - x + 2$

23. $7t^2 - 9t + 4 = -2t - 4$

24. $-7a^2 + 6a - 11 = -2a^2 + 3a - 3$