

Section 3.2 – The Quadratic Equation

Problem Set 1

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. $3t^2 + 9t + 4 = 0$

2. $2t^2 - 6t - 7 = 0$

3. $-7y^2 + 3y + 6 = 0$

4. $7y^2 - 5y - 8 = 0$

5. $s^2 + 9s + 10 = 0$

6. $-5b^2 + 5b + 6 = 0$

7. $-b^2 + 6b + 5 = 0$

8. $9b^2 - 6b - 10 = 0$

9. $b^2 + 5b - 1 = 0$

10. $-7y^2 + 7y + 9 = 0$

11. $-2x^2 + 10x - 7 = 0$

12. $-2x^2 + x + 6 = 0$

13. $10s^2 - 11s + 6 = -s + 4$

14. $10b^2 + 7b - 1 = b^2 + 2b + 3$

15. $6y^2 - 2y - 10 = -2y^2 - y - 4$

16. $-2s^2 + 8s - 1 = -s$

17. $-6b^2 - b + 3 = -4b^2$

18. $-9a^2 + a - 8 = 0$

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

20. $9b^2 + 4b + 4 = 0$

21. $-3x^2 + x - 6 = 3x$

22. $3x^2 + 5x + 8 = -3x$

23. $-11s^2 + 7s - 7 = -s^2 + 2s + 2$

24. $-10y^2 - 2y + 1 = -2y + 3$