

Pre Calculus 11
2.4 Quadratic Formula Assignment

Name _____

Date _____

Solve using the quadratic formula.

1. $2h^2 - 6h + 1 = 0$

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

3. $-g^2 + 10g + 17 = 0$

4. $3p^2 - 12p + 1 = 0$

5. $20m^2 - 2m + 7 = 0$

6. $0 = 8r^2 + 2r + 3$

7. $0 = 4d^2 + 6d + 3$

8. $4w^2 + 3w - 2 = 0$

9. $-2z^2 - 7z - 2 = 0$

10. $0 = -4h^2 + 3h + 9$

11. $0 = 6y^2 - 3y - 5$

12. $12x^2 + 11x + 1 = 0$

13. $0 = 3w^2 - 11w + 9$

14. $4y + 3 = y^2$

15. $3c + 2 = 6c^2$

16. $7 = 2h^2 - 3h$

17. $1 - 8r^2 = 3y$

18. $7a - 3 = -11a^2$

19. $4v^2 - 3v = 3$

20. $k = 5k^2 + 2$

21. $(p - 1)^2 = 8(7 - p)$

22. $5y + 1 = 5y(3 - 5y)$

23. $(5p + 3)(5p - 1) = -4$

24. $0 = (3b - 2)(3b + 4) + 9$

Answer List

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|----------------------------------|-----------------------------------|------------------------------------|
| 1. $\frac{3 \pm \sqrt{7}}{2}$ | 2. $\frac{-1 \pm \sqrt{71}}{7}$ | 3. $5 \pm -\sqrt{42}$ |
| 4. $\frac{6 \pm \sqrt{33}}{3}$ | 5. $\emptyset$ | 6. $\emptyset$ |
| 7. $\emptyset$ | 8. $\frac{-3 \pm \sqrt{41}}{8}$ | 9. $\frac{-7 \pm \sqrt{33}}{4}$ |
| 10. $\frac{3 \pm 3\sqrt{17}}{8}$ | 11. $\frac{3 \pm \sqrt{129}}{12}$ | 12. $\frac{-11 \pm \sqrt{73}}{24}$ |
| 13. $\frac{11 \pm \sqrt{13}}{6}$ | 14. $2 \pm \sqrt{7}$ | 15. $\frac{3 \pm \sqrt{57}}{12}$ |
| 16. $\frac{3 \pm \sqrt{65}}{4}$ | 17. $\frac{-3 \pm \sqrt{41}}{16}$ | 18. $\frac{-7 \pm \sqrt{181}}{22}$ |
| 19. $\frac{3 \pm \sqrt{57}}{8}$ | 20. $\emptyset$ | 21. $5, -11$ |
| 22. $\frac{1}{5}$ | 23. $-\frac{1}{5}$ | 24. $-\frac{2}{3}$ |

Catalog List

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|----------------|----------------|----------------|
| 1. ALG ND 53 | 2. ALG ND 54 | 3. ALG ND 51 |
| 4. ALG ND 58 | 5. ALG ND 61 | 6. ALG ND 62 |
| 7. ALG ND 63 | 8. ALG ND 67 | 9. ALG ND 71 |
| 10. ALG ND 72 | 11. ALG ND 73 | 12. ALG ND 74 |
| 13. ALG ND 75 | 14. ALG ND 80 | 15. ALG ND 81 |
| 16. ALG ND 82 | 17. ALG ND 84 | 18. ALG ND 86 |
| 19. ALG ND 88 | 20. ALG ND 90 | 21. ALG ND 111 |
| 22. ALG ND 112 | 23. ALG ND 113 | 24. ALG ND 114 |