

Solving Quadratics Quiz Review CYU

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Square Root Method	1, 2	3, 4	
Completing the Square		5, 6	7, 8
Quadratic Formula	9	10	11, 12
Factoring	13	14, 15	16
Solving quadratics		17	18 - 20

Show all work to earn full credit. Follow the directions when solving to earn full credit for the correct method.

1 – 4: Use the **square root** method to solve each equation.

1. $x^2 - 10 = 0$

2. $x^2 - 14 = 0$

3. $(x - 1)^2 = 8$

4. $(x + 5)^2 = 12$

5 – 8: Solve each equation by **completing the square**.

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

6. $x^2 - 12x + 11 = 0$

7. $3x^2 + 3x = 5$

8. $16y^2 + 16y = 1$

9 – 12: Use the **quadratic formula** to solve each equation.

9. $2x^2 - 4x + 1 = 0$

10. $\frac{1}{2}x^2 + 3x + 2 = 0$

$$11. x^2 + 4x = -7$$

$$12. x^2 + x = -3$$

13 – 16: Solve each equation by **factoring**.

$$13. x^2 + 3x + 6 = 0$$

$$14. 2x^2 + 18 = 0$$

$$15. x^2 + 17x = 0$$

$$16. 4x^2 - 2x - 3 = 0$$

17 – 20: Solve each equation using the **method of your choice**.

$$17. (x - 2)^2 = 27$$

$$18. \frac{1}{2}x^2 - 2x + \frac{1}{2} = 0$$

$$19. x(x - 2) = 5$$

$$20. 2x^2 = -5x - 1$$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

