

Name _____ Date _____ Pd _____

3.4 Using the Quadratic Formula DAY ONE 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
Finding a, b, c	1 - 6	10 - 14	15 - 18
Converting to standard form	10 - 14	15 - 18	
Plugging a, b, c into quadratic formula	1 - 6	10 - 14	15 - 18
Simplifying quadratic formula	1 - 7	8, 16 - 18	9 - 15

Solve each equation with the quadratic formula.

1. $m^2 - 5m - 14 = 0$

6. $2x^2 + 3x - 20 = 0$

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

7. $4b^2 + 8b + 7 = 4$

3. $2m^2 + 2m - 12 = 0$

8. $2m^2 - 7m - 13 = -10$

4. $2x^2 - 3x - 5 = 0$

9. $2x^2 - 3x - 15 = 5$

5. $x^2 + 4x + 3 = 0$

10. $x^2 + 2x - 1 = 2$

$$11. 2k^2 + 9k = -7$$

$$15. k^2 - 31 - 2k = -6 - 3k^2 - 2k$$

$$12. 5r^2 = 80$$

$$16. 9n^2 = 4 + 7n$$

$$13. 2x^2 - 36 = x$$

$$17. 8n^2 + 4n - 16 = -n^2$$

$$14. 5x^2 + 9x = -4$$

$$18. 8n^2 + 7n - 15 = -7$$

19. Pick any two problems and prove that your answer is correct by showing the value of the discriminant gives those answers.

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

