3.3 Completing the Square CYU

☑ Use when you get it right all by yourself

 ${m S}$ Use when you did it all by yourself, but made a silly mistake

HUse 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 "c"	1 - 4		
Solving by Completing the Square		5 - 7	8
Converting from Standard Form to Vertex Form		9, 10, 12	11
Identifying the Vertex & Axis of Symmetry	9 - 12		

Determine what should go in the square.

1)
$$y = x^2 + 4x +$$

2)
$$y = x^2 - 2x +$$

3)
$$f(x) = x^2 + 6x +$$

4)
$$f(x) = x^2 - 9x +$$

Solve by Completing the Square.

5)
$$x^2 + 4x = 5$$

6)
$$0 = x^2 - 2x + 2$$

7)
$$0 = x^2 + 6x - 10$$

8)
$$-5 = -2x^2 - 4x$$

Convert from Standard form $(y = ax^2 + bx + c)$ to Vertex form $(y = a(x - h)^2 + k)$. Then identify the vertex and axis of symmetry.

9)
$$0 = x^2 - 2x + 2$$

10)
$$0 = -x^2 + 6x - 10$$

11)
$$0 = 2x^2 + 4x - 3$$

12)
$$x^2 + 20x + 90 = 0$$

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 $\,$

