3.5 Solving Non-Linear Systems DAY TWO CYU

☑ Use when you get it right all by yourself

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)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving Systems by graphing	7,8	9, 10	3 - 6
Solving Systems by substitution	3, 4	5, 6	
Solving Systems by elimination		3, 4	5, 6
Checking solutions		1, 2	

1.
$$x^{2} + y^{2} - 7x + 3y - 28 = 0$$
$$-2x + y - 4 = 0$$

$$(-1, -3)$$



Solve each system of equations. You choose which method between graphing, substitution, or elimination. Show all your work to earn full credit.

3.
$$3x^2 + 2y^2 - 54y - 143 = 0$$
$$x - 3y - 3 = 0$$

4.
$$x^{2} + 2y^{2} - 11x - 3y + 31 = 0$$
$$-x + y + 4 = 0$$

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

 $x - y = 0$

6.
$$-x^{2} - 3x + y = 0$$

$$-12x^{2} - 3x + y = 0$$

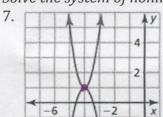
$$(0, 0)$$



(8-11-3)

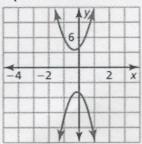
(3,5)

Solve the system of nonlinear equations using the graph provided.

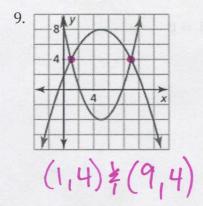


(-4,1)

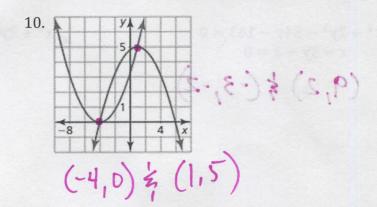
8.



no solution



(i,d)



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

