Name_

Date _

Pd___

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)

 $\emph{\textbf{N}}$ Use 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	

State if the point given is a solution to the system of equations.

$x^{2} + y^{2} - 7x + 3y - 28 = 0$	$-2x^{2} + 2y^{2} - 2x + 8y + 5 = 0$	(()
1. (3, -5)	2	(-1, -3)
-2x + y - 4 = 0	$-x^{2} + 26v^{2} - 2x + 104v + 77 = 0$	

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

$3x^2 + 2y^2 - 54y - 143 = 0$	$x^{2} + 2y^{2} - 11x - 3y + 31 = 0$
x - 3y - 3 = 0	4. $-x + y + 4 = 0$

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

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

Solve the system of nonlinear equations using the graph provided. 7. 8.





Basic



4

Advanced Solved ALL!



Intermediate

8