3.5 Solving Non-Linear Systems CYU

Duse 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)

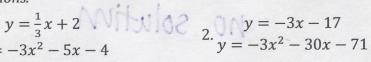
NUse when a question was not even attempted

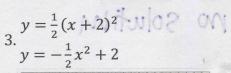
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving Systems by graphing	1, 2	3	
Solving Systems by substitution	4, 5, 6		7
Solving Systems by elimination	8,9	10	11

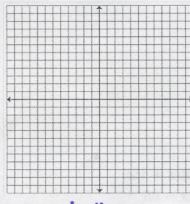
Solve the system by graphing. Remember you can check your answer by plugging them back into the original equations.

1.
$$y = \frac{1}{3}x + 2$$

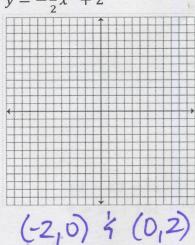
$$y = -3x^2 - 5x - 4$$











no solution

Solve the system by substitution. Remember you can check your answer by plugging them back into the original equations. 5. y = -8 (PS.21 · , 20.0) \Rightarrow

$$y = x + 5
 y = x^2 - x + 2$$

$$5. \ y = -8$$
$$x^2 + y^2 = 64$$

$$(01-8)$$

$$6. -3x^{2} + 4x - y = 8$$

$$(3_{1}-23)$$

7.
$$y + 16x - 22 = 4x^{2}$$

 $4x^{2} - 24x + 26 + y = 0$
 $(2/6)$ $(3/10)$

Solve the system by substitution. Remember you can check your answer by plugging them back into the original equations.

8.
$$-x + 2 = -y$$
8.
$$-3x^2 + 2x - 5 = y$$
Solution

9.
$$-3x^{2} + y = -18x + 29$$

 $-3x^{2} - y = 18x - 25$
NO Solution

10.
$$y = -x^2 - 6x - 10$$

 $3x^2 + 18x + 22 = y$
 $(-4.65, -4.71) \neq (0.65, -15.29)$

$$11. -10x^{2} + y = -80x + 155$$

$$5x^{2} + y = 40x - 85$$

$$(4 -5)$$

$$(4 -5)$$

(8-10)

(4,4) 4 (8,8)

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

