

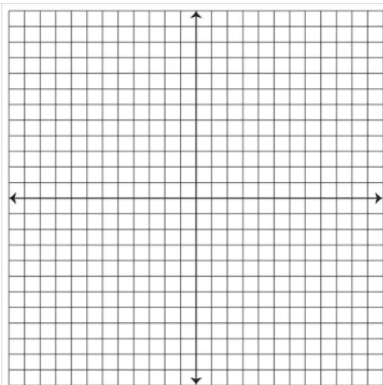
3.5 Solving Non-Linear Systems CYU

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

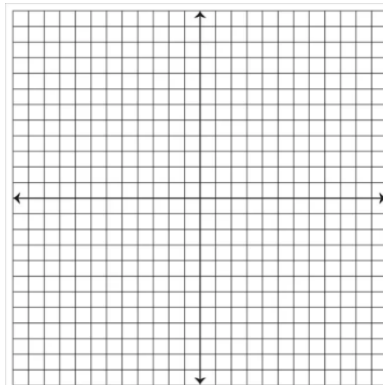
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving Systems by graphing	1, 2	3	
Solving Systems by substitution	4, 5, 6		7
Solving Systems by elimination	8, 9	10	11

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

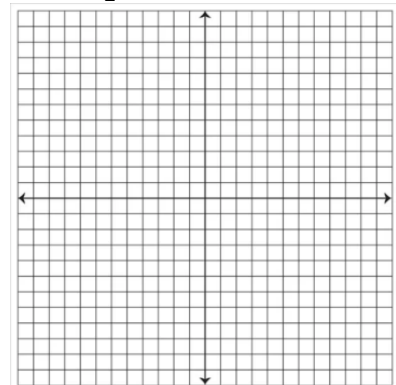
1. $y = \frac{1}{3}x + 2$
 $y = -3x^2 - 5x - 4$



2. $y = -3x - 17$
 $y = -3x^2 - 30x - 71$



3. $y = \frac{1}{2}(x + 2)^2$
 $y = -\frac{1}{2}x^2 + 2$



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

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

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

$$6. \begin{cases} x = 3 \\ -3x^2 + 4x - y = 8 \end{cases}$$

$$7. \begin{cases} y + 16x - 22 = 4x^2 \\ 4x^2 - 24x + 26 + y = 0 \end{cases}$$

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

$$8. \begin{cases} -x + 2 = -y \\ -3x^2 + 2x - 5 = y \end{cases}$$

$$9. \begin{cases} -3x^2 + y = -18x + 29 \\ -3x^2 - y = 18x - 25 \end{cases}$$

$$10. \begin{cases} y = -x^2 - 6x - 10 \\ 3x^2 + 18x + 22 = y \end{cases}$$

$$11. \begin{cases} -10x^2 + y = -80x + 155 \\ 5x^2 + y = 40x - 85 \end{cases}$$

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

