Name: __Key__ Date: _____ Period: _____

4.1 – 4.3 Solving Systems of Linear Equations by Graphing, Substitution & Elimination Quiz Review CYU

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Checking if coordinates are solutions	1	2	
Solve systems by graphing	4	5	6
Solve systems by substitution	7	8	9
Solve systems by elimination	10	11	12

Determine whether each of the following ordered pairs satisfies the system of linear equations.

1. $2x - 3y = 12$
   $3x + 4y = 1$

2. $4x + y = 0$
   $-8x - 5y = 9$

a) $(12, 4)$ no

b) $(3, -2)$ yes

c) $(-3, 6)$ no

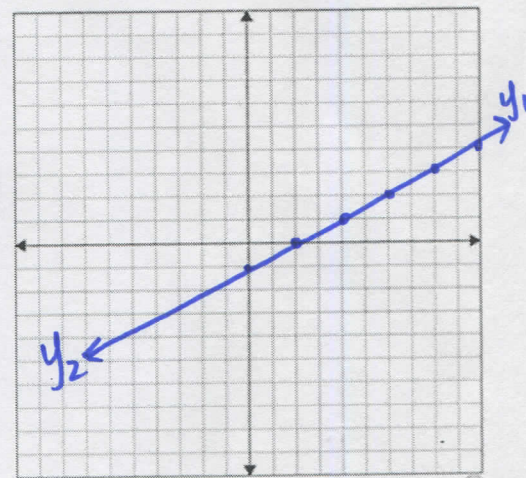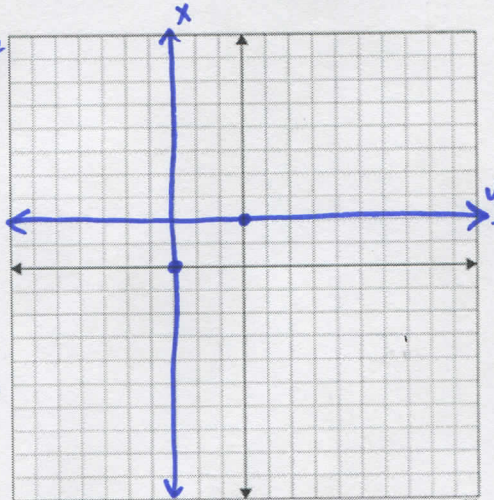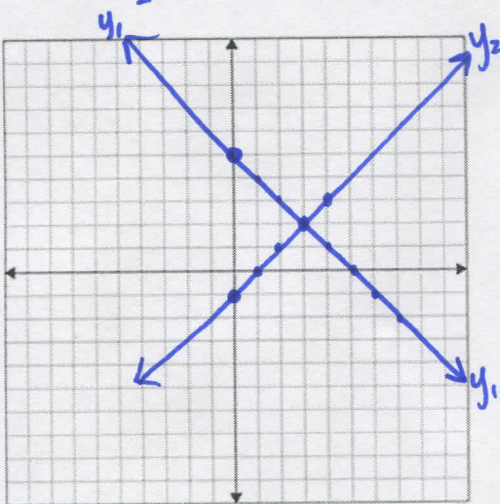a) $\left(\frac{3}{4}, -3\right)$ yes

b) $(-2, 8)$ no

c) $\left(\frac{1}{2}, -2\right)$ no

Solve each system of equations by graphing.

3. $x + y_1 = 5$
   $x - y_2 = 1$ $(3,2)$

4. $x = -3$
   $y = 2$ $(-3,2)$

5. $x - 2y_1 = 2$
   $-2x + 4y_2 = -4$ ∞

Solve each system of equations by the substitution method. Show all work for full credit.

7. $y = 2x + 6$
   $3x - 2y = -11$ $(-1, 4)$

8. $x + 3y = -3$
   $2x + y = 4$ $(3, -2)$

9. $-3x + y = 6$
   $y = 3x + 2$ $\{\}$ or $\emptyset$
   no sol.

Solve each system of equations by the elimination method. Show all work for full credit.

10. $2x + 3y = -6$
    $x - 3y = -12$ $(-6, 2)$

11. $2x - 6y = -1$
    $-x + 3y = \frac{1}{2}$ ∞

12. $10x + 2y = 0$
    $3x + 5y = 33$ $\left(-\frac{3}{2}, \frac{15}{2}\right)$

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 score you would give yours elf.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Basic | | Intermediate | | | Advanced | | Solved ALL! |