Geometry Readiness Practice 6
… Systems of Equations

**Unit F: Systems of Equations & Inequalities**
Be able to:
- Recognize that the solution to a system of linear equations is the point of intersection of their graphs
- Recognize that if there is no intersection, there is no solution
- Recognize that if the equations represent the same line, there are infinite solutions
- Determine if a given point is a solution to a system
- Solve systems of equations by graphing
- Solve systems of equations using substitution
- Solve systems of equations by elimination
- Solve systems of inequalities by graphing
- Solve application problems including those using perimeter, coins, and mixtures

1) When you solve a system of equations by graphing, the solution is the point of intersection, true or false?

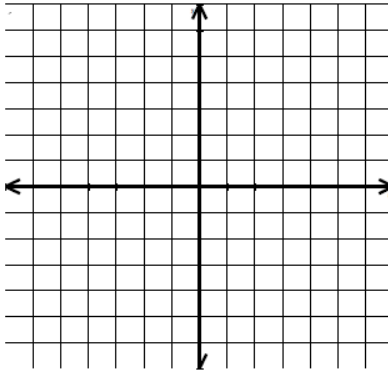Solve each by graphing:

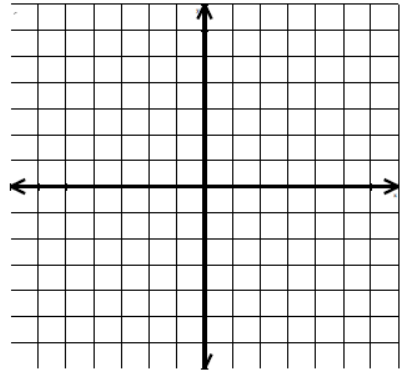2) $y = -\frac{1}{2}x - 2$

$y = x + 1$
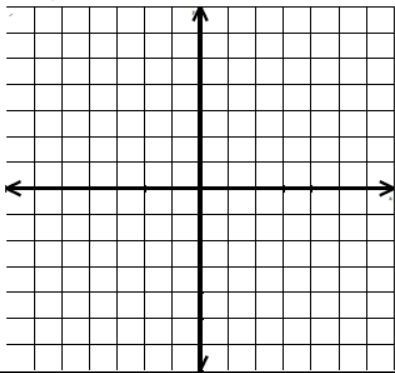
3) $x + y = 2$

$y = -2x - 1$

4) $3x + 3y = 12$

$y = -x + 2$

Solve each using substitution:

5) $y = 2x + 8$

$2x + 2y = -20$

6) $y = x - 7$

$2x + y = 8$

Solve each using elimination:

7) $10x - 6y = 12$

$-5x + 9y = 12$

8) $-6x - 4y = 1$

$12x + 8y = -8$

9) $5x + y = -18$

$-x - y = 10$

Solve each using any method:

10) $y = 3x + 2$

$2x + y = -8$

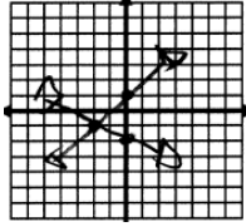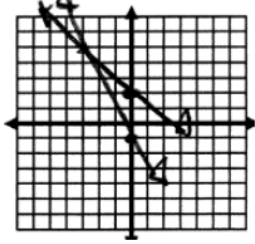11) $2x + 4y = -6$

$x - 3y = 7$
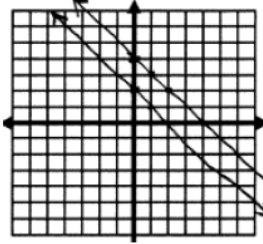
12) $x - y = 3$

$3x + y = 25$

13) $3x + y = 10$

$y = -3x + 4$

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Answers

ANSWERS for Unit F	3) $(-3, 5)$	4) No solution	5) $(-6, -4)$
1) True			6) $(5, -2)$
2) $(-2, -1)$			7) $(3, 3)$
			8) No solution
			9) $(-2, -8)$
			10) $(-2, -4)$
			11) $(1, -2)$
			12) $(7, 4)$
			13) No solution