Alg Name_____

4-1 System of Equations - Solve by Graphing (ver1)_hw Date_____

Part 1

Determine whether the given ordered pair is a solution of the system of equations.

1. $(3, 2)$; $2x + 3y = 12$
   $x - 4y = -5$

2. $(1, 5)$; $5x - 2y = -5$
   $3x - 7y = -32$

3. $(3, 2)$; $3t - 2s = 0$
   $t + 2s = 15$

4. $(2, -2)$; $b + 2a = 2$
   $b - a = -4$

5. $(-1, 1)$; $x = -1$
   $x - y = -2$

6. $(-3, 4)$; $2x = -y - 2$
   $y = -4$

7. $(12, 3)$; $y = \frac{1}{4}x$
   $3x - y = 33$

8. $(-3, 1)$; $y = -\frac{1}{3}x$
   $3y = -5x - 12$

Part 2

Decide whether the given ordered pair is a solution of the given system.

1. $(2, -3)$
   $x + y = -1$
   $2x + 5y = 19$

2. $(4, 3)$
   $x + 2y = 10$
   $3x + 5y = 3$

3. $(-1, -3)$
   $3x + 5y = -18$
   $4x + 2y = -10$

4. $(-9, -2)$
   $2x - 5y = -8$
   $3x + 6y = -39$

5. $(7, -2)$
   $4x = 26 - y$
   $3x = 29 + 4y$

6. $(9, 1)$
   $2x = 23 - 5y$
   $3x = 24 + 3y$

7. $(6, -8)$
   $-2y = x + 10$
   $3y = 2x + 30$

8. $(-5, 2)$
   $5y = 3x + 20$
   $3y = -2x - 4$

9. $(0, 0)$
   $4x + 2y = 0$
   $x + y = 0$

Answers to 4-1 System of Equations - Solve by Graphing (ver1)_hw

Part 1

1. Yes
2. Yes
3. No
4. Yes
5. Yes
6. No
7. Yes
8. Yes

Part 2