

Your name _____

Assignment # 5 Points 15

Tech Math Off-site Instruction Packet Cover Page (Periods 1,2,4)

Students, You can contact me with questions or just to say hi.

Email: LEWISJU@mwood.cc (Put your name in the subject line so I know who you are!!). I will be checking mail multiple times each day.

Topic of this assignment: See 17.1 Solving systems of equations by graphing.

What you need to know: A system is 2 equations with two variables. The solution is the point of intersection where the two lines cross. (x, y)

What you need to do: See # 4. Search online if you need to. Complete remaining problems 1-8

Suggested Youtube/Google search: Solving systems of equations by graphing

*Identify each solution!

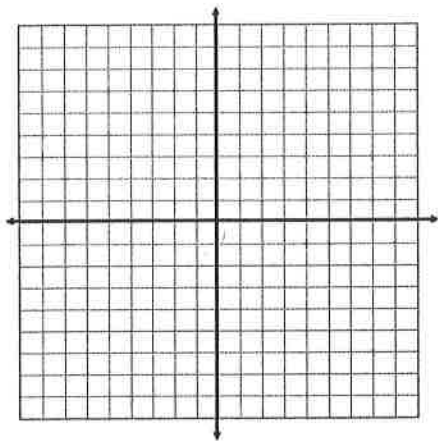
Technical Math
Section 17.1

Name _____

Graph and solve each system of equations.

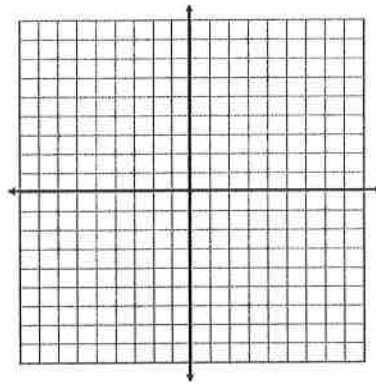
1.
$$\begin{cases} x = 2y \\ x - y = 2 \end{cases}$$

Solution = _____



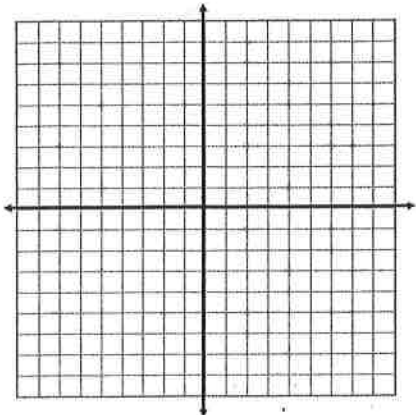
2.
$$\begin{cases} x - y = 1 \\ x + y = 11 \end{cases}$$

Solution = _____



3.
$$\begin{cases} 2y = x + 10 \\ 2y = -2x + 16 \end{cases}$$

Solution = _____



4.
$$\begin{cases} x + 4y = 0 \\ -2x + y = 9 \end{cases}$$

Solution = (4, -1)

Handwritten work for problem 4:

$$\begin{array}{r} x + 4y = 0 \\ -x \qquad -x \\ \hline 4y = \frac{-x}{4} + \frac{0}{4} \\ 4 \qquad 4 \qquad 4 \\ \hline y = -\frac{1}{4}x + 0 \end{array}$$

Slope \nearrow
y-intercept \nearrow

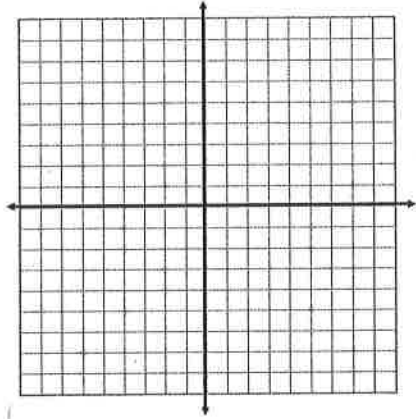
Graph showing two lines intersecting at (4, -1). The line $x + 4y = 0$ has a negative slope, and the line $-2x + y = 9$ has a positive slope.

$$\begin{array}{r} -2x + y = 9 \\ +2x \qquad +2x \\ \hline y = 2x + 9 \end{array}$$

slope \nearrow
y-intercept \nearrow

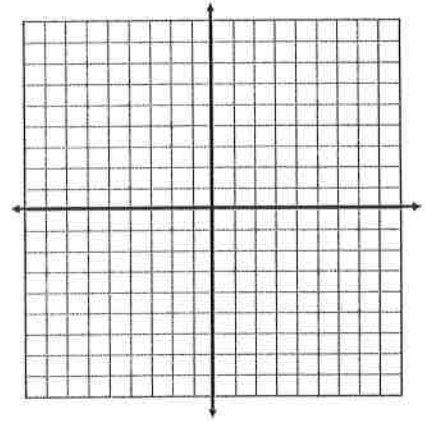
5.
$$\begin{cases} x - y = 7 \\ 2x - y = 10 \end{cases}$$

Solution = _____



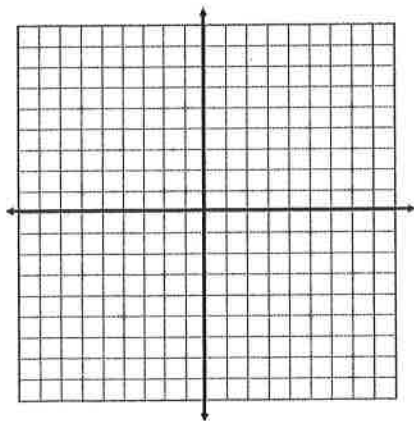
6.
$$\begin{cases} x - y = 8 \\ 4x + 6y = 12 \end{cases}$$

Solution = _____



7.
$$\begin{cases} -x - 2y = 0 \\ x - y = -6 \end{cases}$$

Solution = _____



8.
$$\begin{cases} 3x + y = 0 \\ 2x + y = 2 \end{cases}$$

Solution = _____

