

He grated it! ha ha! hree hree! cherey

Dept. 19



HW: Show work in your notebook for #s 3 - 8 on pages 10 & 11. Glue this worksheet on page 9. (Fold it in half)

What Did the Teacher Do With Ogar's Cheese Report?



Solve each system of equations by graphing. Cross out the letters above each correct answer. When you finish, the remaining letters will tell you the answer to the title question.



1. $y = \frac{3}{2}x - 1 \rightarrow m = \frac{3}{2}$ $b = -1$
 $y = -x + 4$

2. $y = \frac{1}{3}x + 2 \rightarrow m = \frac{1}{3}$ $b = 2$
 $y = -\frac{4}{3}x - 3$

3. $y = 2x + 1 \rightarrow m = 2$ $b = 1$
 $-2x + 3y = -9$

4. $3x + y = 0 \rightarrow m = -3$ $b = 0$
 $x - y = 4$

5. $-3x + 4y = 8 \rightarrow m = \frac{3}{4}$ $b = 2$
 $x + 2y + 6 = 0$

6. $7x - 5y = 20 \rightarrow m = \frac{7}{5}$ $b = -4$
 $-8x - 3y = 12$

7. $-x - 4y = 12 \rightarrow m = -\frac{1}{4}$ $b = -3$
 $20x + 80y = 0$

8. $30x + 50y - 100 = 0 \rightarrow m = \frac{3}{5}$ $b = -2$
 $3x - 15y - 30 = 0$

Systems of Linear Equations: Solving Systems by Graphing

$m = \frac{1}{2}$
 $b = 4$

SH	HE	ES	TO	GR	AB	TH	AT	OP	SP	ED	QU	IT
(-3, 1)	(4, 3)	(-4, -1)	(5, -1)	(-2, 4)	(-3, -5)	^{no} solution	(-2, -3)	(2, 2)	(0, -4)	(-4, 0)	(1, -3)	(1, -1)

#2 #5 #8 #3 #7 #1 #6 #4

HW

"What did the teacher do w/ Ogar's cheese report?" worksheet 9/19

$$\begin{array}{r}
 3.) \quad -2x + 3y = -9 \\
 +2x \qquad +2x \\
 \hline
 3y = 2x - 9 \\
 \frac{3y}{3} = \frac{2x-9}{3} \\
 y = \frac{2}{3}x - 3 \\
 m = \frac{2}{3} \quad b = -3
 \end{array}$$

$$\begin{array}{r}
 6.) \quad 7x - 5y = 20 \\
 -7x \qquad -7x \\
 \hline
 -5y = -7x + 20 \\
 \frac{-5y}{-5} = \frac{-7x+20}{-5} \\
 y = \frac{7}{5}x - 4 \\
 m = \frac{7}{5} \quad b = -4
 \end{array}$$

$$\begin{array}{r}
 4.) \quad 3x + y = 0 \\
 -3x \quad -3x \\
 \hline
 y = -3x \\
 m = -3 \quad b = 0
 \end{array}$$

$$\begin{array}{r}
 -8x - 3y = 12 \\
 +8x \qquad +8x \\
 \hline
 -3y = 8x + 12 \\
 \frac{-3y}{-3} = \frac{8x+12}{-3} \\
 y = \frac{8}{3}x - 4 \\
 m = \frac{8}{3} \quad b = -4
 \end{array}$$

$$\begin{array}{r}
 x - y = 4 \\
 -x \quad -x \\
 \hline
 -y = -x + 4 \\
 \frac{-y}{-1} = \frac{-x+4}{-1} \\
 y = x - 4 \\
 m = 1 \quad b = -4
 \end{array}$$

$$\begin{array}{r}
 y = \frac{8}{3}x - 4 \\
 m = \frac{8}{3} \quad b = -4
 \end{array}$$

$$\begin{array}{r}
 5.) \quad -3x + 4y = 8 \\
 +3x \qquad +3x \\
 \hline
 4y = 3x + 8 \\
 \frac{4y}{4} = \frac{3x+8}{4} \\
 y = \frac{3}{4}x + 2 \\
 m = \frac{3}{4} \quad b = 2
 \end{array}$$

$$\begin{array}{r}
 7.) \quad -x - 4y = 12 \\
 +x \qquad +x \\
 \hline
 -4y = x + 12 \\
 \frac{-4y}{-4} = \frac{x+12}{-4} \\
 y = \frac{1}{4}x - 3 \\
 m = \frac{1}{4} \quad b = -3
 \end{array}$$

$$\begin{array}{r}
 x + 2y + 6 = 0 \\
 -6 \quad -6 \\
 \hline
 x + 2y = -6 \\
 -x \quad -x \\
 \hline
 2y = -x - 6 \\
 \frac{2y}{2} = \frac{-x-6}{2} \rightarrow y = -\frac{1}{2}x - 3 \\
 m = -\frac{1}{2} \quad b = -3
 \end{array}$$

$$7.) \quad \begin{array}{r} 20x + 80y = 0 \\ -20x \quad -20x \end{array}$$

$$\frac{80y}{80} = \frac{-20x}{80}$$

$$y = -\frac{1}{4}x$$

$$m = -\frac{1}{4} \quad b = 0$$

$$8.) \quad \begin{array}{r} 30x + 50y - 100 = 0 \\ +100 +100 \end{array}$$

$$\begin{array}{r} 30x + 50y = 100 \\ -30x \quad -30x \end{array}$$

$$\frac{50y}{50} = \frac{-30x + 100}{50}$$

$$y = -\frac{3}{5}x + 2$$

$$m = -\frac{3}{5} \quad b = 2$$

$$\begin{array}{r} 3x - 15y - 30 = 0 \\ +30 +30 \end{array}$$

$$\begin{array}{r} 3x - 15y = 30 \\ -3x \quad -3x \end{array}$$

$$\frac{-15y}{-15} = \frac{-3x + 30}{-15}$$

$$y = \frac{1}{5}x - 2$$

$$m = \frac{1}{5} \quad b = -2$$