

Unit 2 HW 12

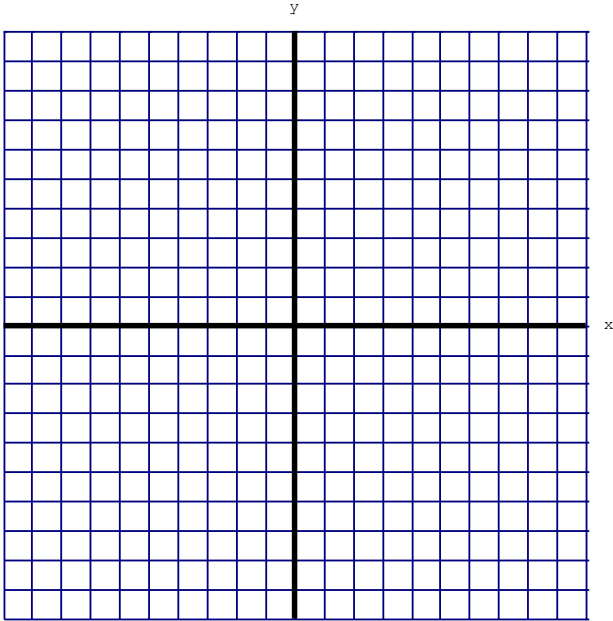
Name _____

Date _____

Period _____

1) Solve the system by graphing

$$\begin{cases} x + 2y = 8 \\ -5x - 2y = -16 \end{cases}$$



2) Solve the system by Substitution

$$\begin{cases} x + 2y = 8 \\ -5x - 2y = -16 \end{cases}$$

3) Solve the system by elimination

$$\begin{cases} x + 2y = 8 \\ -5x - 2y = -16 \end{cases}$$

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Name _____ Date _____ Period _____

4) For the homecoming dance, Social Committee earns 5 dollars for each ticket sold, but they initially spent \$1,500 for the DJ and decorations.

a. Write an equation to represent the profit, p , earned for x student tickets sold.

b. At the end of the night Mrs. Buchter finds that Social Committee made \$650 dollars profit. How many tickets were sold?

c. If 450 tickets were sold, how much profit was made?

5) Write the equation of a line through $(-10, 37)$ and $(22, -27)$.