

Unit 2 HW 12

Name Key No Work

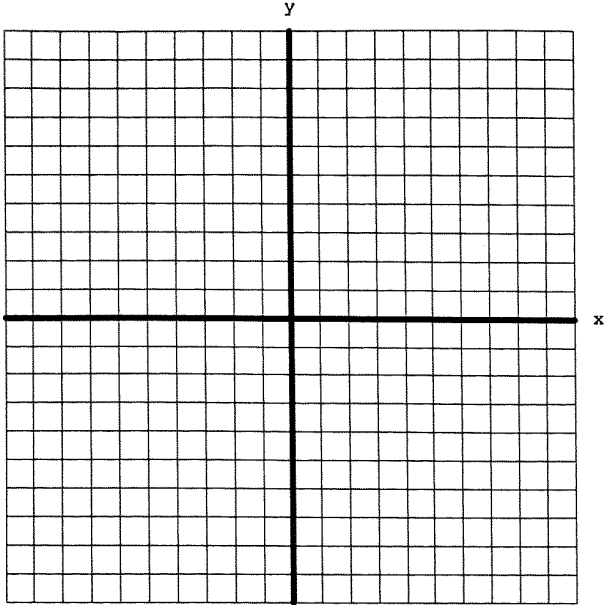
Date \_\_\_\_\_

Period \_\_\_\_\_

1) Solve the system by graphing

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

(2, 3)



2) Solve the system by Substitution

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

(2, 3)

3) Solve the system by elimination

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

(2, 3)

## Unit 2 HW 12

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?  $430$  tickets

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

$\$750$

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

$$y = -2x + 17$$