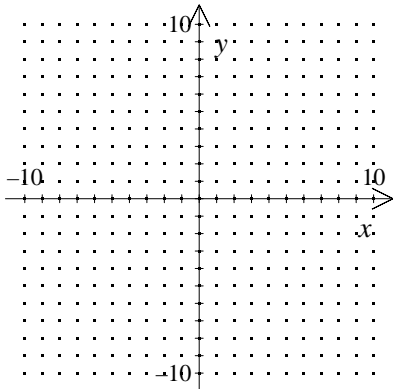


P.I. A.G.7: Graph and solve systems of linear equations with rational coefficients in two variables

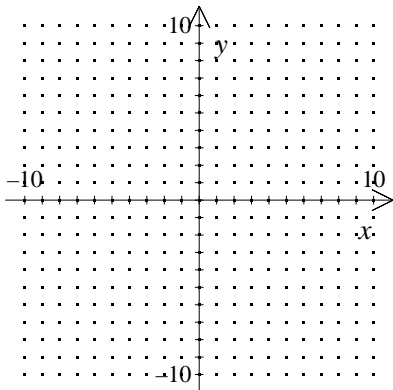
Graph:

$$\begin{aligned} 1. \quad x + 2y &= -8 \\ 3y - x &= -3 \end{aligned}$$



[1]

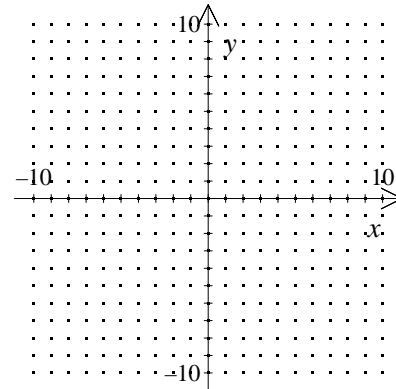
$$\begin{aligned} 2. \quad x + 3y &= 9 \\ 2y - x &= 2 \end{aligned}$$



[2]

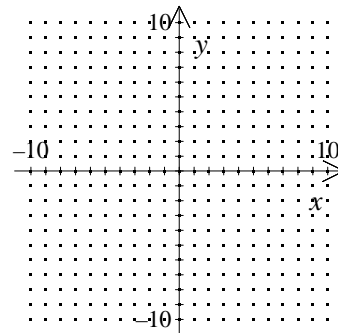
NAME: _____

$$\begin{aligned} 3. \quad x + 4y &= 8 \\ 2y - x &= -6 \end{aligned}$$



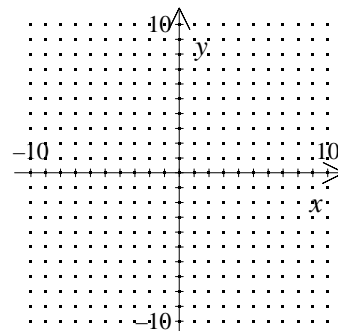
[3]

$$\begin{aligned} 4. \quad x + y &= 3 \\ 2x - y &= -9 \end{aligned}$$



[4]

$$\begin{aligned} 5. \quad x + y &= 3 \\ 3x - y &= -7 \end{aligned}$$

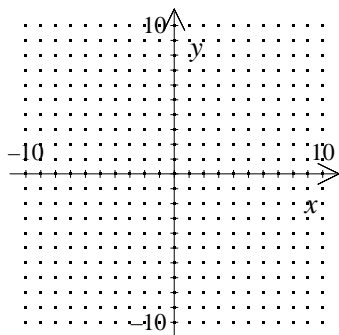


[5]

NAME: _____

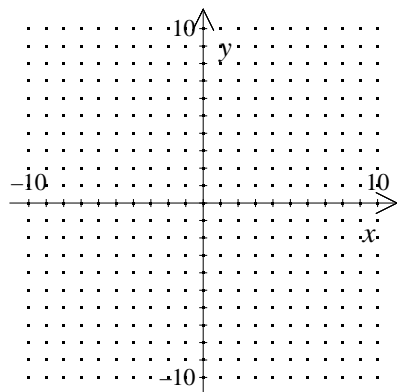
Graph:

6. $x + y = -1$
 $3x - y = -7$



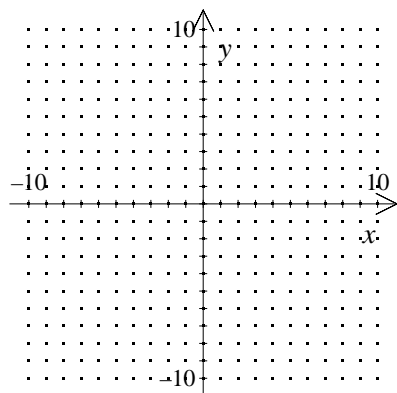
[6] _____

7. Find the solution to the system by graphing.
 $x + y = -6$
 $2x - y = -6$



[7] _____

8. Find the solution to the system by graphing.
 $x + y = -3$
 $3x - y = -5$



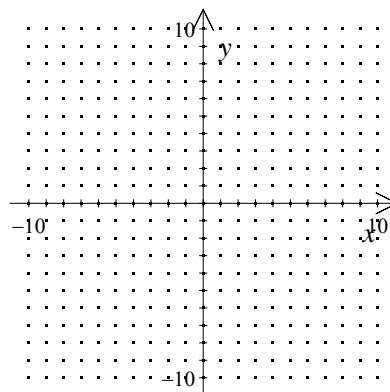
[8] _____

9. Use a graphing calculator to solve the system of linear equations below by graphing.

Sketch the graph on your paper.

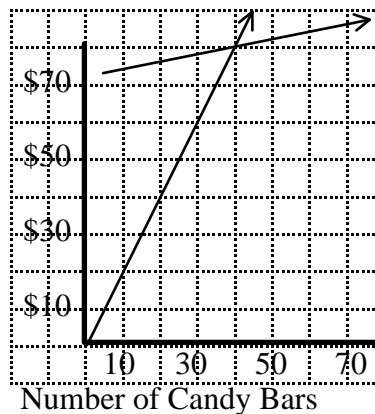
$5x - y = 4$

$4x + 2y = 6$



[9] _____

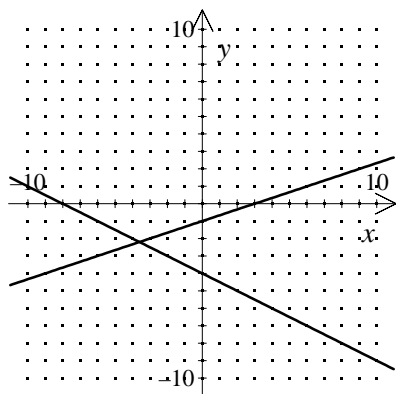
10.



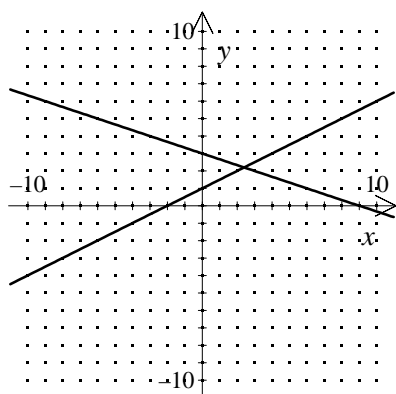
Look at the graph above of the expense and income equations for a basketball fund-raiser. What are the coordinates of the break-even point?

- [A] (40, 80) [B] (20, 60)
[C] (-40, 80) [D] (-20, 60)

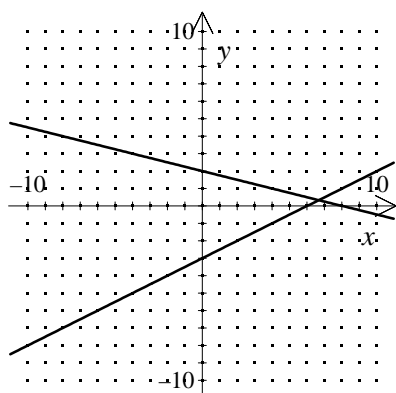
[10] _____



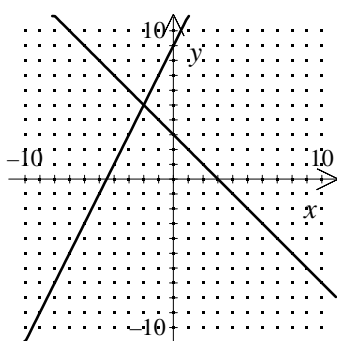
[1]



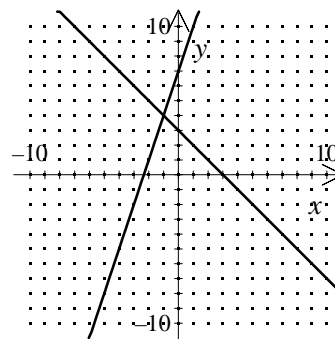
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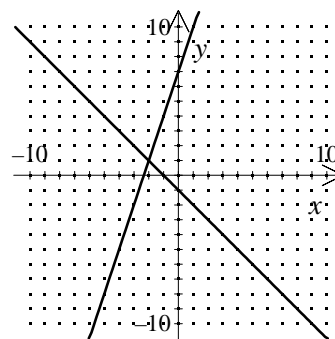
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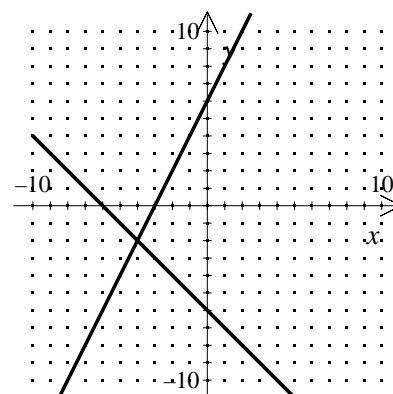
[4]



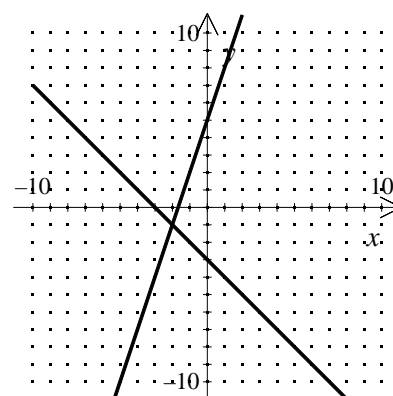
[5]



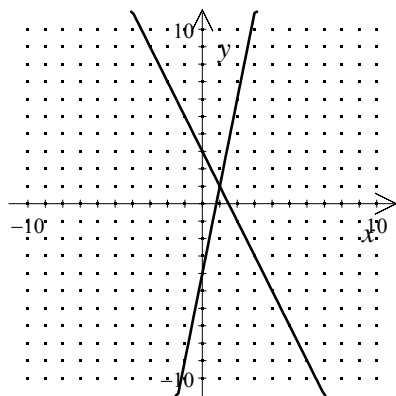
[6]



[7] $(-4, -2)$



[8] $(-2, -1)$



[9] (1, 1)

[10] A