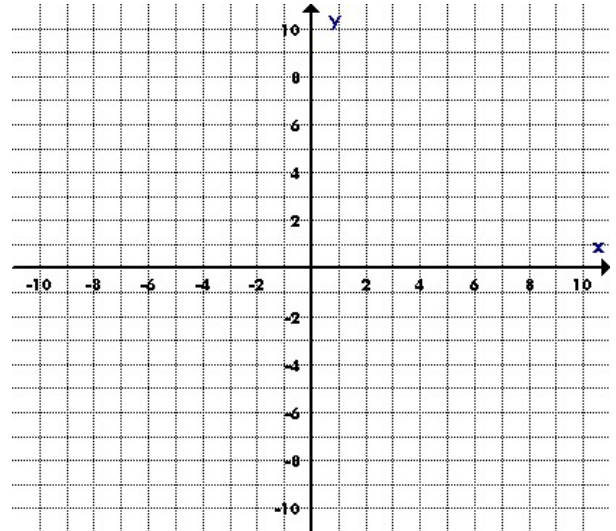


SOLVING LINEAR SYSTEMS OF EQUATIONS BY GRAPHING

Solve each linear system graphically. Remember, **rearrange** the equations into $y = mx + b$ form to graph the lines first. **Don't forget to CHECK your solution.**

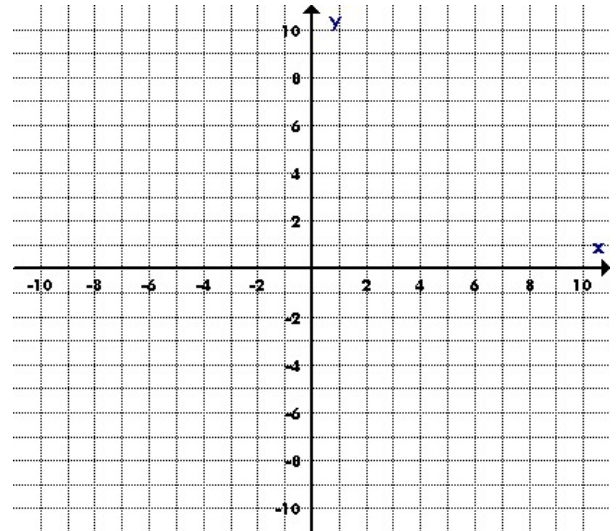
a) $-x + y = 4$ and $3x - y = 0$

Check:



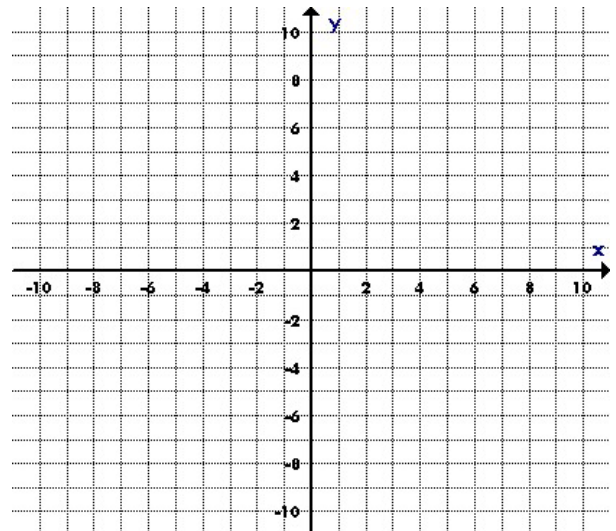
b) $y = x + 5$ and $4x + y - 10 = 0$

Check:



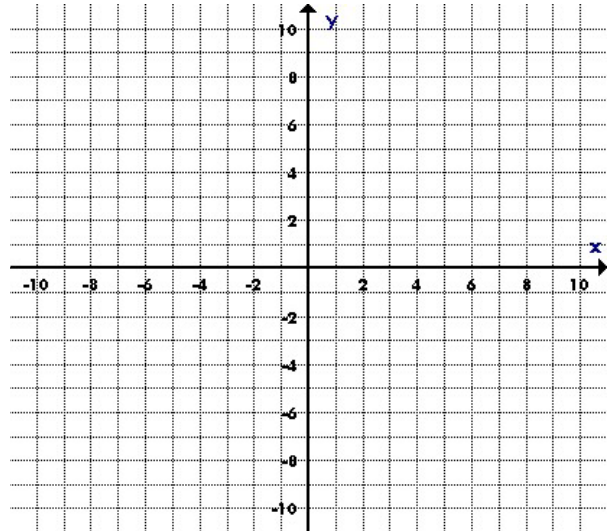
c) $3y - 2x = 12$ and $y - \frac{4}{3}x - 6 = 0$

Check:



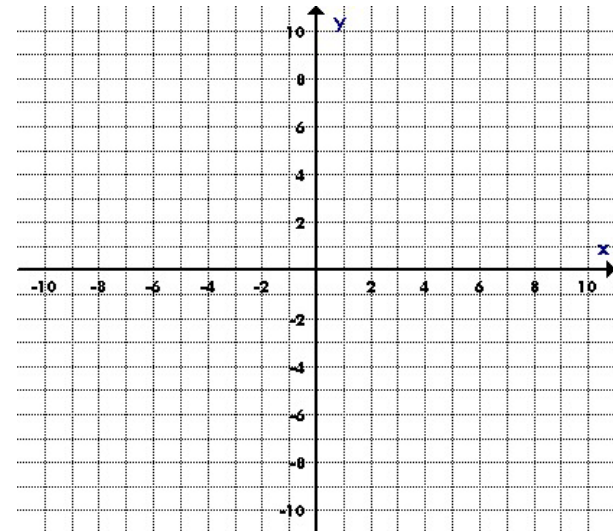
d) $7x + 2y = 6$ and $2x - 5y = -15$

Check:



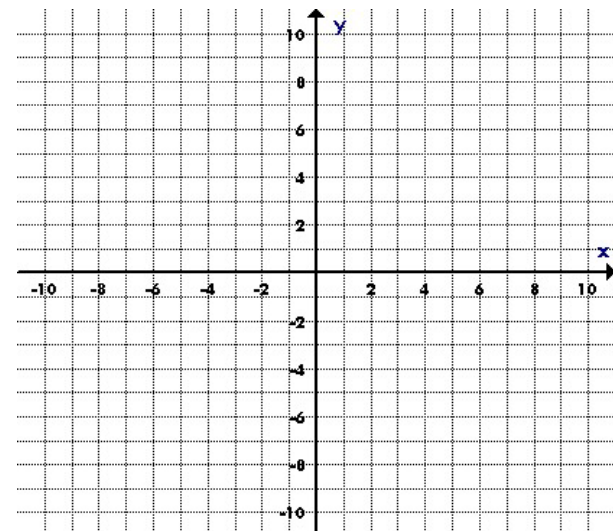
e) $-4x + y = 5$ and $3x + 2y = -12$

Check:



f) $2x + y = 1$ and $-4x - y = -1$

Check:



APPLICATION QUESTIONS

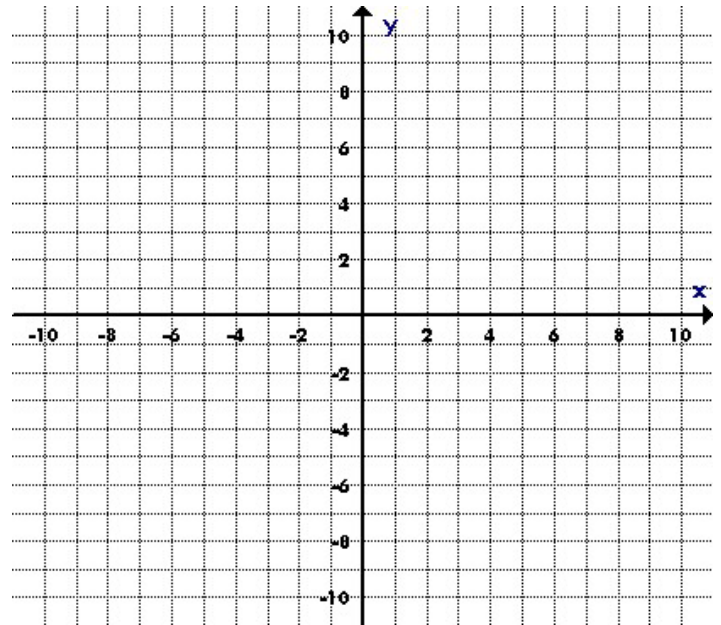
Make sure to finish the question with an answer statement

1. In Canada's Arctic, a coordinate system is one way of locating position. Two surveying crews trek along the following paths:

A: Survey crew Hollander: $y = \frac{4}{3}x + 4$

B: Survey crew Williams: $-2x - 6y - 36 = 0$

At which point might the two crews meet?



2. The position of a wrecked oil tanker is given at the intersection of $y = -2x + 5$ and $3x - 4y - 24 = 0$. Find the coordinates of its position.

