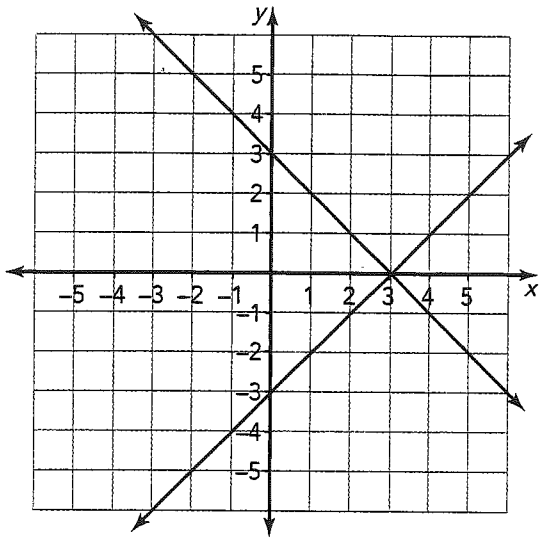
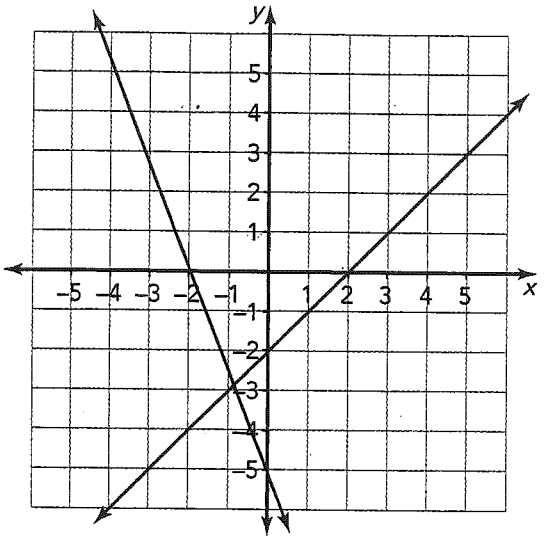
LO 10 : SOLVING 2 EQUATIONS SIMULTANEOUSLY

Determine the point of intersection from the pairs of graphs. Give your answer in coordinate form (x, y).

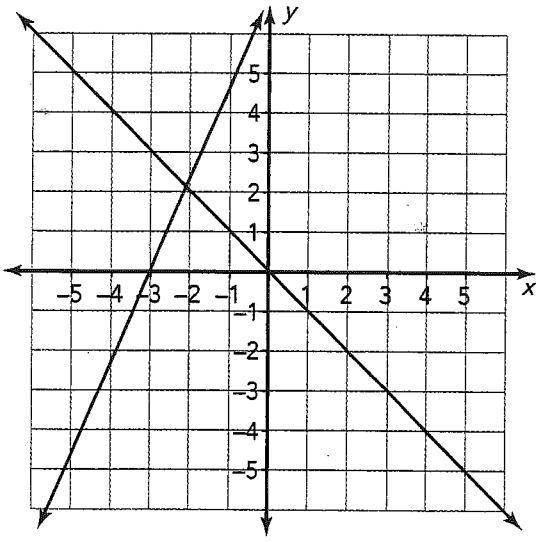
a



b



c



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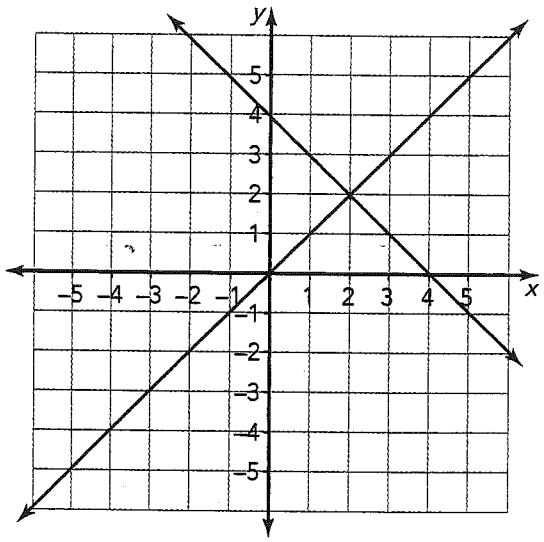

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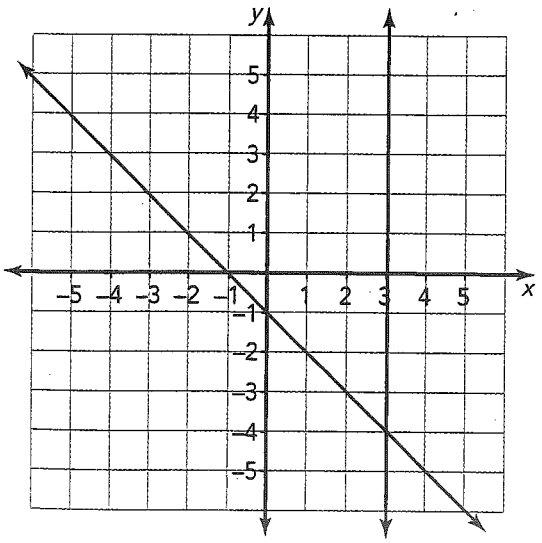

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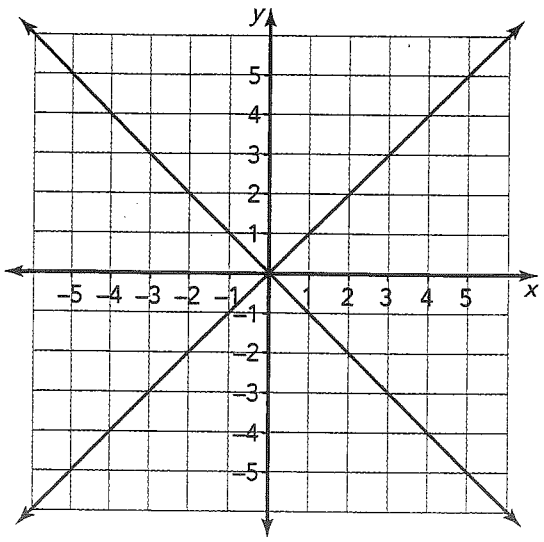

2 State whether the linear equations are simultaneous or not. Determine if:

a (1, 4) will satisfy equations $2x + y = 7$ and $x - y = -4$

b (2, 1) will satisfy equations $x - y = 1$ and $x + y = 3$

c (1, −3) will satisfy equations $4x + 3y = -5$ and $5x - 2y = 11$

d (2, 2) will satisfy equations $x = y$ and $y = -x$

e (0, 5) will satisfy equations $y = 5 - x$ and $y = 5x + 10$

f (−2, −3) will satisfy equations $7x + 2y + 20 = 0$ and $2x - 3y = 5$.

3 Using graph paper, sketch graphs of the following equations on the same set of axes and determine the points of intersection.

a $y = 3$
$x = 2$

b $y = x$
$y = 2x - 2$

c $x + y = 4$
$x - y = 2$

d $y = x - 7$
$y = 3 - x$