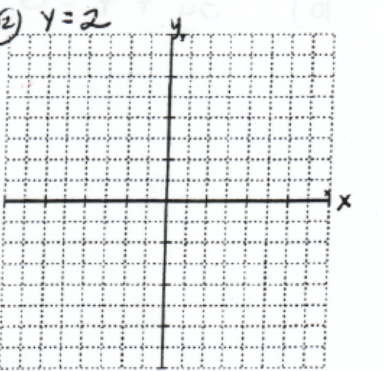
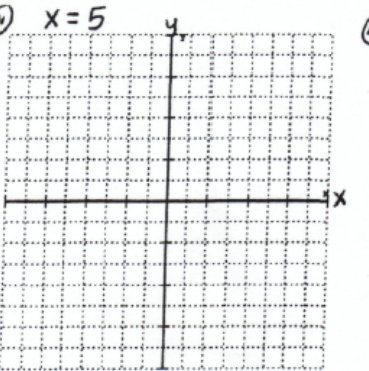
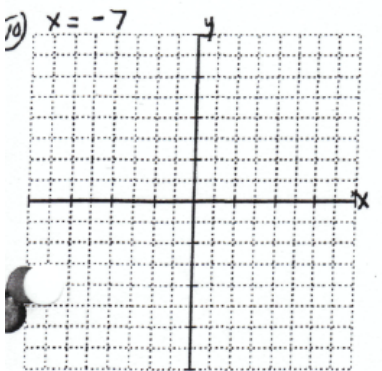
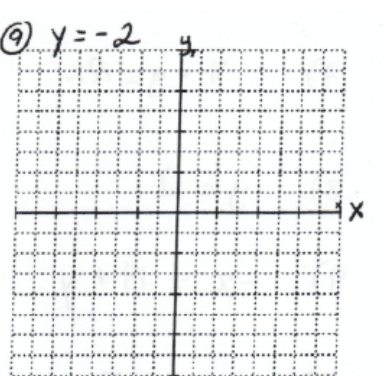
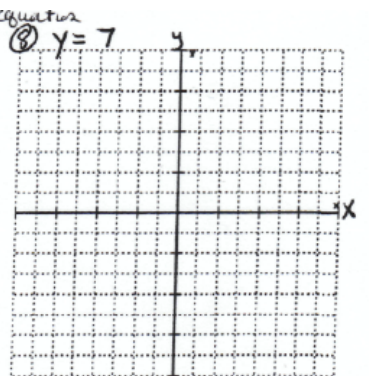
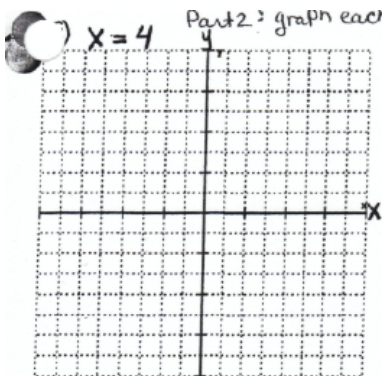
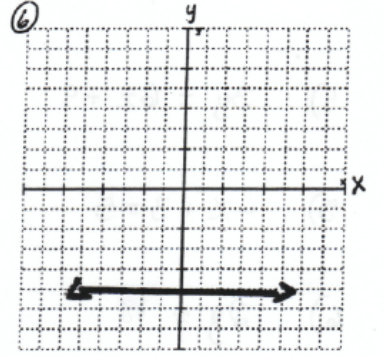
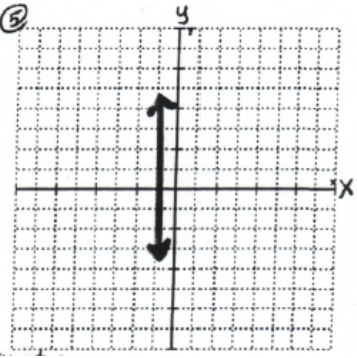
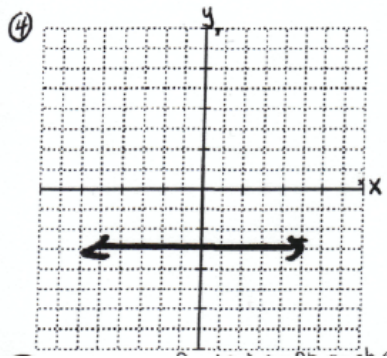
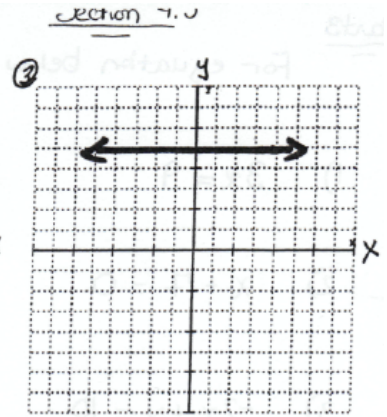
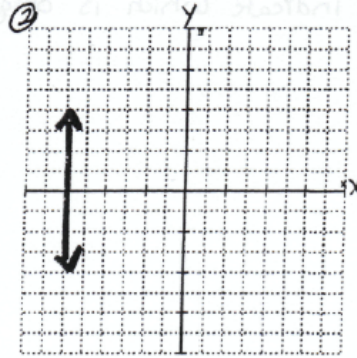
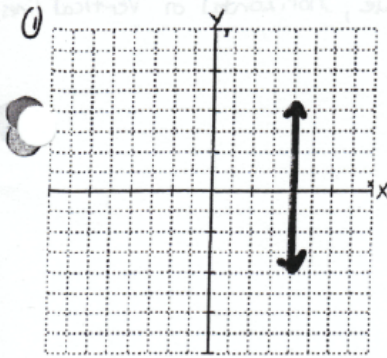


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Questions 14 & 16

Worksheet

Part 1: write the equation for each line



Parts

For equation below indicate which is oblique, horizontal or vertical lines.

1) $3x = 9$

2) $x + 7 = 0$

3) $-2x + y = 10$

4) $3y = 6x + 9$

5) $-x + 3 = 5$

6) $2y = 18$

7) $7 + y = 2x$

8) $y = 2$

9) $-x = 14 + y$

10) $3y + 7 = 0$

Check

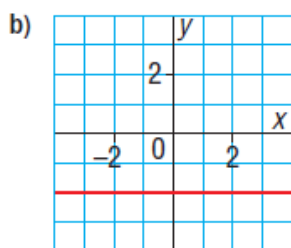
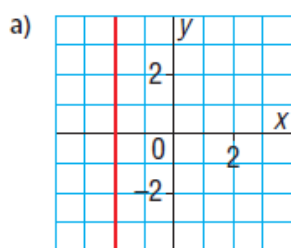
4. Which equation describes each graph?

i) $x = -2$

ii) $x = 2$

iii) $y = -2$

iv) $y = 2$



5. Does each equation describe a vertical line, a horizontal line, or an oblique line?
Describe each horizontal and vertical line.

a) $y = 7$

b) $x - y = 3$

c) $x = -5$

d) $x + 9 = 0$

e) $2y = 5$

f) $y = 6 - 2x$

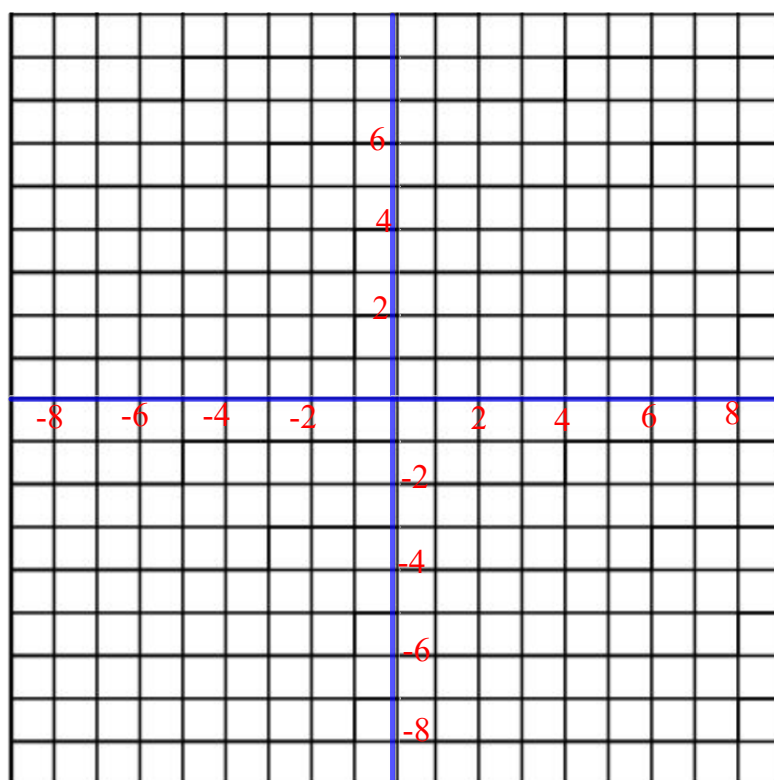
6. Describe the graph of each line. Graph each line to check your description.

a) $y = 5$

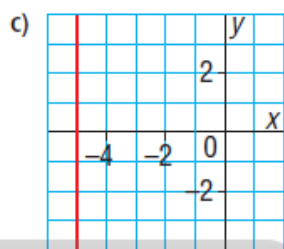
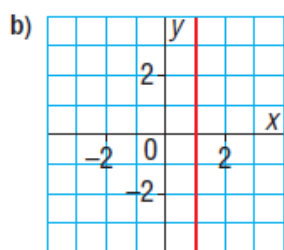
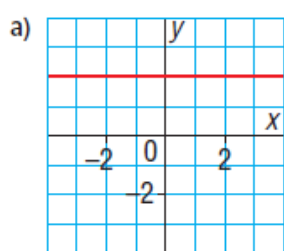
b) $x = -1$

c) $x = -5$

d) $y = 7$

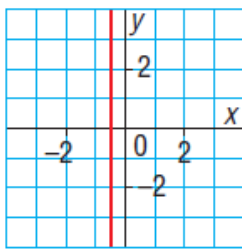


7. Write an equation to describe each line.



8. Which equation best describes the graph below? Explain your choice.

- a) $x - 2 = 0$ b) $2x + 1 = 0$
c) $2y - 1 = 0$ d) $2x - 1 = 0$



10. a) For each equation below:

- Make a table of values for

$x = -2, 0,$ and $2.$

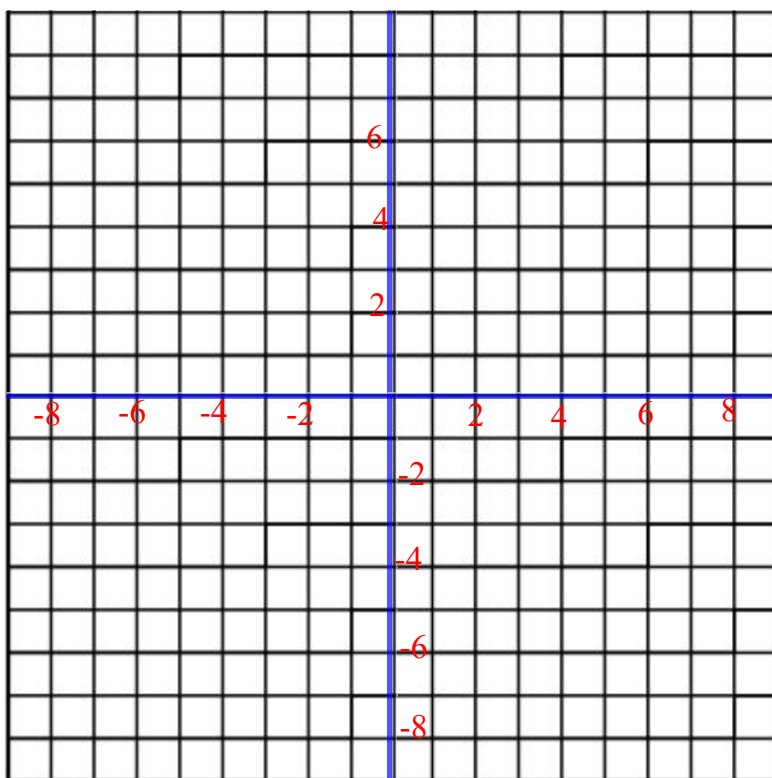
- Graph the equation.

i) $x + y = 6$ ii) $x - y = 6$

iii) $x + y = -6$ iv) $x - y = -6$

b) How are the graphs in part a alike?

How are they different?



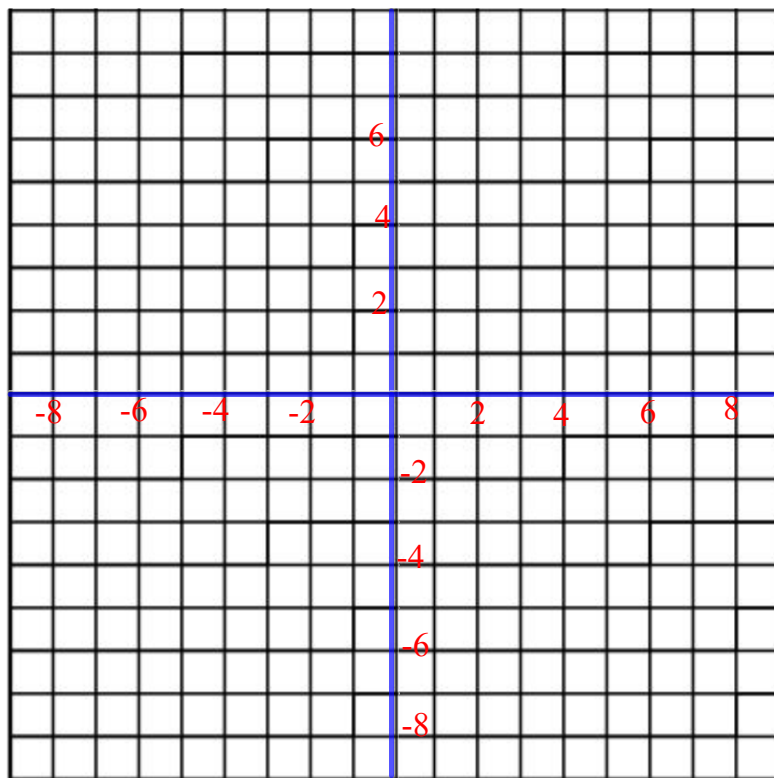
11. Graph each line. Explain your work.

a) $y + 3 = -2$

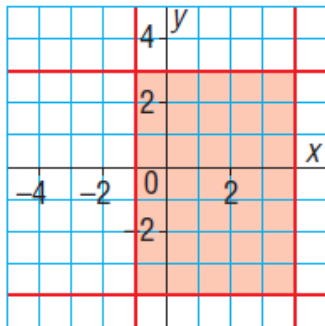
b) $2x = 7$

c) $3x + 1 = -5$

d) $2y - 2 = 10$

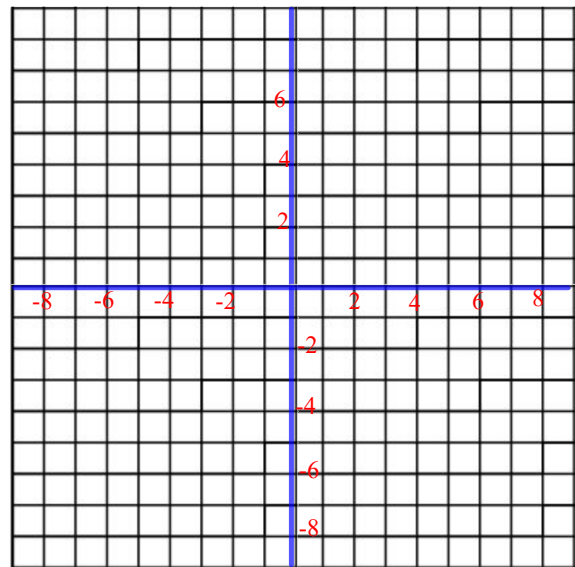


12. Write the equations of the lines that intersect to form the shaded rectangle.



13. Assessment Focus

- a) Graph the following lines on the same grid. What shape do they form?
- i) $x = -3$ ii) $y = 2$
iii) $x - 1 = 0$ iv) $y + 2 = 0$
- b) Construct a congruent shape on the grid with one of its vertices at the origin.
- c) Write the equations of the lines that form the shape you drew.
- d) Is there more than one shape you can draw in part b? If your answer is yes, draw any more possible shapes.
- Show your work.



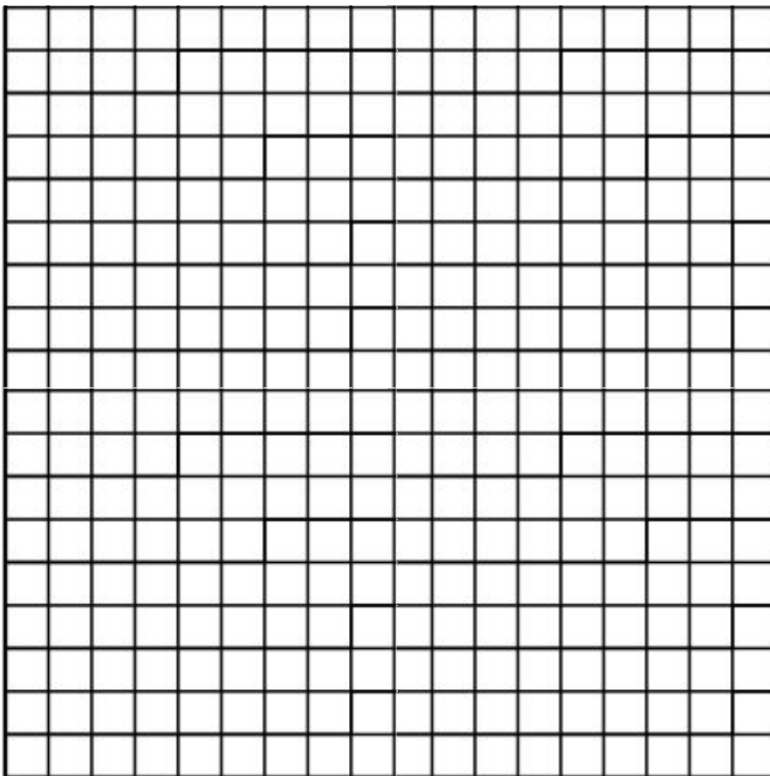
14. The distance between Edmonton and Calgary is about 300 km. Kate leaves Calgary to drive to Edmonton.

Let t kilometres represent the distance Kate has travelled. Let e kilometres represent the distance she has yet to travel to Edmonton.

- a) Copy and complete this table for 6 different values of t .

Distance Travelled, t (km)	Distance to Edmonton, e (km)
0	300

- b) What is the greatest value of t that could be in the table? Explain.
- c) Graph the data. Should you join the points? Explain.
- d) Write an equation that relates t and e .

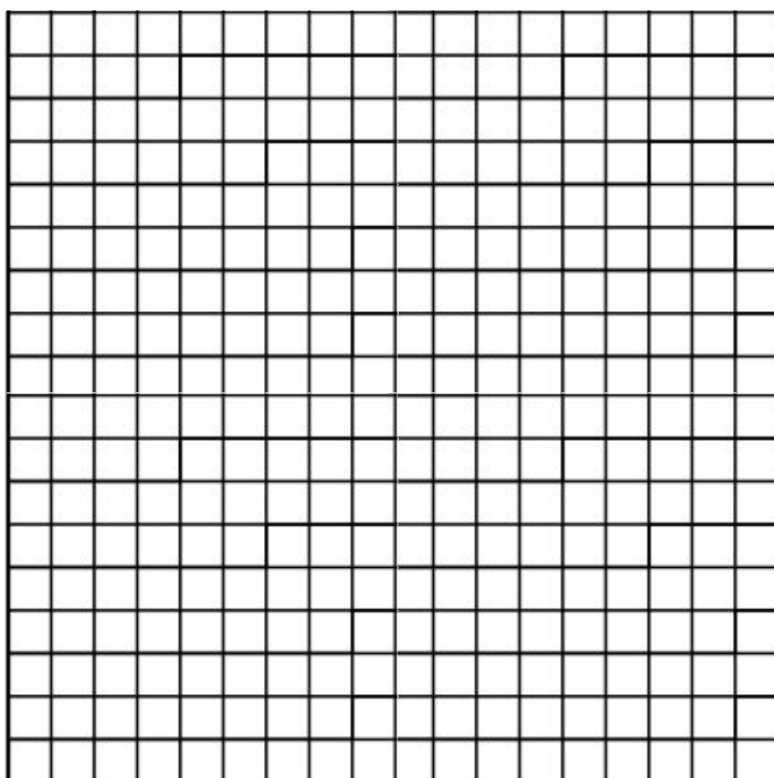


15. For each equation below:

- Make a table for the given values of x .
- Graph the equation.

a) $2x + y = 6$; for $x = -3, -2, -1, 0, 1, 2, 3$

b) $3x - y = 2$; for $x = -2, -1, 0, 1, 2, 3$



15. For each equation below:

- Make a table for the given values of x .
- Graph the equation.

c) $x + 2y = -6$

d) $3x - 2y = -6$

