

y = -2x - 1-4 -3 -2 -1 0 y = 3x + 4

- a) What are the coordinates of the point where the graphs of y = -2x - 1 and y = 3x + 4 intersect?
- b) Hence, solve the simultaneous equations.



- The graph shows the lines $y = -\frac{1}{2}x + 1$ and y = 3x + 8
 - $y = -\frac{1}{2}x + 1$ -4 -3 -2 -1 0 y = 3x + 8
- a) What are the coordinates of the point where the graphs of $y = -\frac{1}{2}x + 1$ and y = 3x + 8 intersect?
- b) Hence, solve the simultaneous equations.





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a) What are the coordinates of the point where the graphs of y = 10x - 18 and $y = \frac{2}{3}x + \frac{2}{3}$ intersect?



y =

b) Hence, solve the simultaneous equations.

$$y = 10x - 18$$
 $y = \frac{2}{3}x + \frac{2}{3}$



The graph shows the line y = 5x - 7

y = 5x - 78 6-4. 2 -10 -8 -6 -4 2 -2 0 6 10 8 4 -2--4--6--8 -10

a) On the same grid, draw the graph of y = -2x

' =

b) Hence, solve the simultaneous equations.

$$y = 5x - 7$$

x =

y =

8

- Two lines are given by the equations.
- a) Complete the tables of values for the lines.



b) On the coordinate grid, draw and label the graphs of L_1 and L_2



c) Use your graph in part b) to estimate the solutions to the simultaneous equations.



- d) Why is your answer to part c) an estimate?

Compare methods with a partner.

$$L_1 \ y = 3x - 8$$

$$L_2 \ y = 4 - 5x$$

x	0	1	2
у			

10 2 ż -10



e) Solve the simultaneous equations algebraically to check your estimate.





