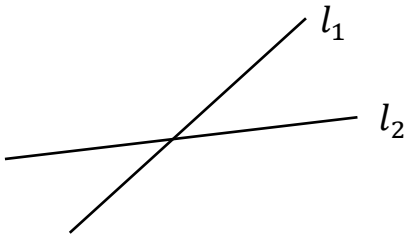
Year 08
Weekly Tutorial - 19

mathsalpha.com

1. Solve; $\frac{2x+5}{2} = 3(x-7)$

2. Make x the subject; $y = 2\sqrt{\frac{3x+5}{2}}$

3.



$l_1 \equiv 2x + 3y - 5 = 0$
$l_2 \equiv 3x + y + 2 = 0$

Find the coordinates at intersection point of line l_1 and l_2.

4.

x	-1	0	1	2	3
y					

a) Complete the table to draw the graph of the straight line, $y = 2x - 5$
b) Draw the graph of $y = 2x - 5$.
(Please use a graph paper)

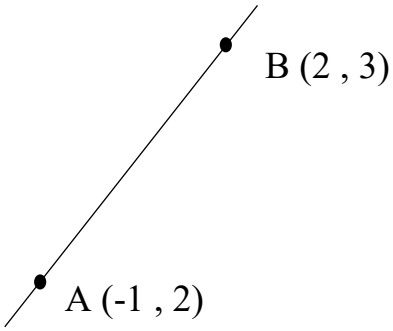
5.

x	-3	-2	-1	0	1	2
y	9		-5			4

a) Complete the above table to draw the graph of the quadratic function, $y = 2x^2 + x - 6$
b) Draw the graph of $y = 2x^2 + x - 6$.
(Please use a graph paper)
c) Write roots and y-intercept of the quadratic function, $y = 2x^2 + x - 6$.

Dharana Siriwarnage, PGD (maths), BSc

6.



Find the equation of straight line passes through points A (-1 , 2) and B (2 , 3).

7. Solve by factorization.

a) $x^2 + 3x - 28 = 0$

b) $6x^2 - 13x + 6 = 0$

8. Zack invests £ 12 000 in a bank which gives 2.1% compound interest per annum. After how many years Zack's investment will exceed £ 12 500?

9. The salaries of Sarah and Beth are in a ratio 4: 5. Sarah gets a 25%, while Beth gets a 10% salary increase. After the salaries increase, new ratio of Sarah's and Beth's salaries are 10: 11. Sarah's new salary is £ 2 520. Find Beth's new salary.

10. The population of a town increased by 2% last year and it is expected to be decreased by 1% this year to 30 294. What was the original population of the town before it increased by 2% last year?