



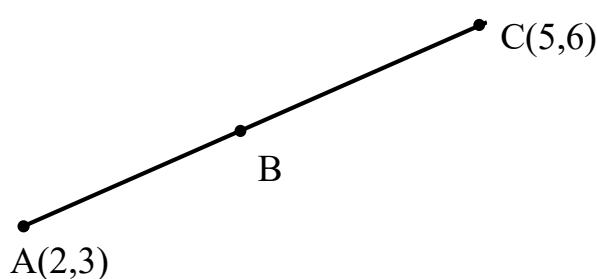
## GCSE – Year 10

### Weekly Revision Tutorial - 11

1. Solve by factorization;  $3x^2 - 22x + 7 = 0$
2. Find the coordinates of intersection point of line  $l_1$  and  $l_2$ .  

$$l_1 \equiv 3x + 2y - 1 = 0$$
 and  $l_2 \equiv y - x - 3 = 0$
3. Simplify;  $\frac{1}{x^2+2x+1} - \frac{1}{x^2+3x+2}$
4. Make  $x$  the subject, if  $y = \frac{3x^2-7}{5-2x^2}$

5.



$AB:BC = 3:2$   
 Find the coordinates at point B.

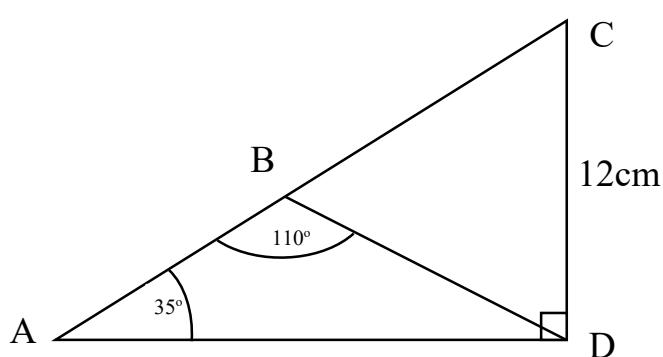
6. The table gives information about the heights of 50 trees.

Height (h) meters	Frequency
$0 < h \leq 4$	8
$4 < h \leq 8$	21
$8 < h \leq 12$	12
$12 < h \leq 16$	7
$16 < h \leq 20$	2

Work out an estimate for the mean height of the trees.

(Edexcel 2016)

7.



BAD angle =  $35^\circ$   
ABD angle =  $110^\circ$   
CD = 12 cm  
Find the length BD.

8. Find the coordinate of the Centre and the radius of the circle.

$$x^2 + y^2 - 4x + 6y - 5 = 0$$

9. Solve the inequality;  $\frac{2x-3}{2} > 3x + 5$ .

10. Equation of a curve is given by  $y = ka^x$ . Find the values of  $k$  and  $a$ , if the curve passes through points (1,2) and (2,5).