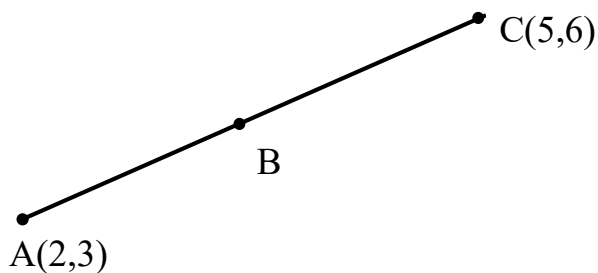




GCSE – Year 10

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.

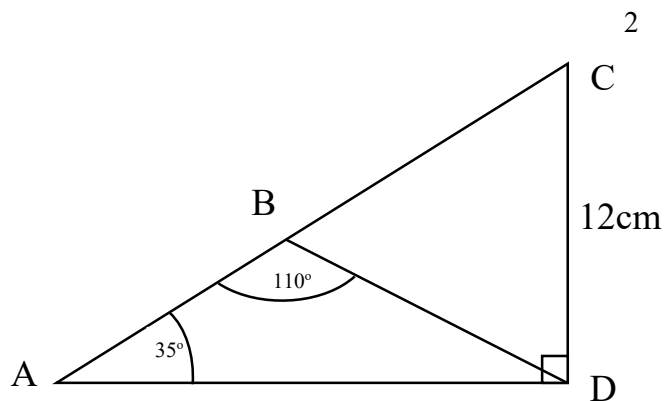
6. The table gives information about the heights of 50 trees.

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°
 ABD angle = 110°
 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).