

Year 08 Weekly Tutorial - 17

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1. Expand and simplify. $(3 - 2x)(3x + 1)(x + 4)$

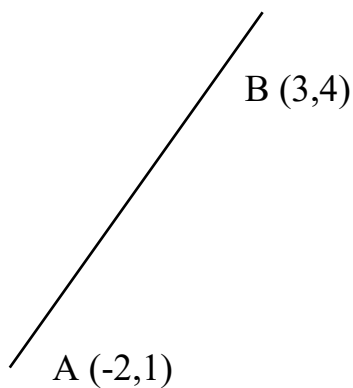
2. Solve
$$\begin{aligned} 5x - 3y &= 21 \\ 3x + 2y &= 5 \end{aligned}$$

3. Make x the subject; $y = \frac{13+5x}{7-3x}$

4. Solve by factorization.

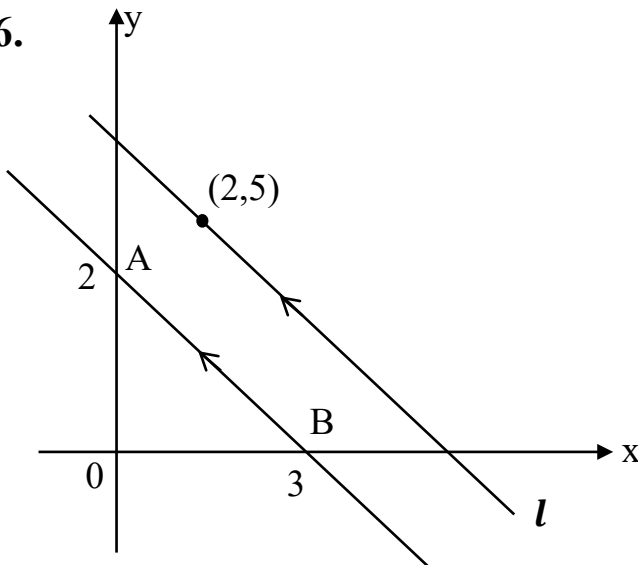
$$x^2 = \frac{x + 10}{3}$$

5.



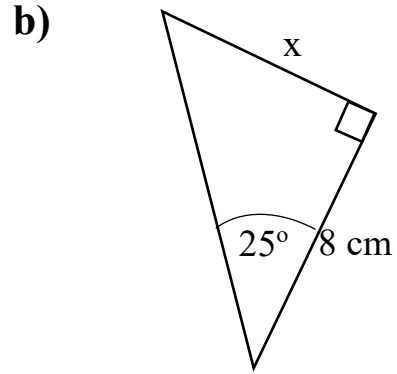
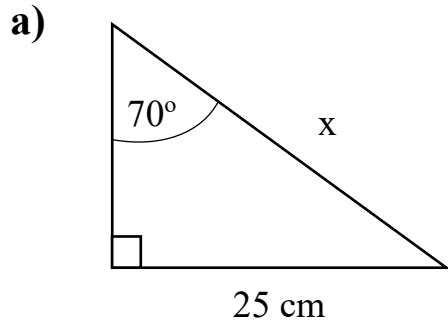
- Find the coordinates at mid pint of line AB.
- Find the length AB.
- Find the gradient of the line AB.

6.

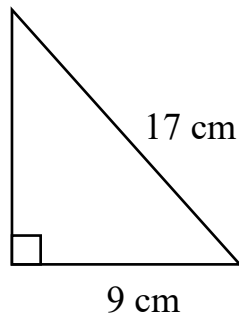


Line l passes trough a pint $(2,5)$ and parallel to line AB.,
Find the equation of the line l .

7. Find unknown sides of the following triangles.

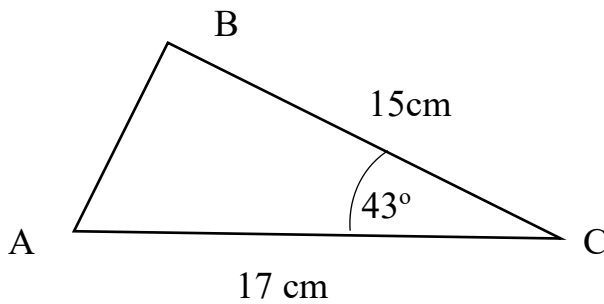


8.



Find the area of the triangle.

9.



Find the area of the triangle ABC.
(Note – $\hat{A}BC$ is not a right angle)

10. The table below shows mass of a sample of eggs.

Mass of eggs, m (in g)	Frequency
$90 < m \leq 110$	27
$110 < m \leq 130$	51
$130 < m \leq 150$	80
$150 < m \leq 170$	31
$170 < m \leq 190$	11

Find the average mass of an egg.