

## Year 08 Weekly Tutorial - 14

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

2. Solve  $5 - 3(2x + 3) \geq 12 - 5x$

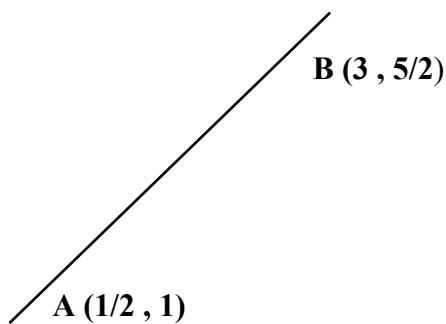
3. Expand and simplify  $(3x + 2)(x - 2)(x + 4)$

4. Factorize

a)  $x^2 - 3x - 28$

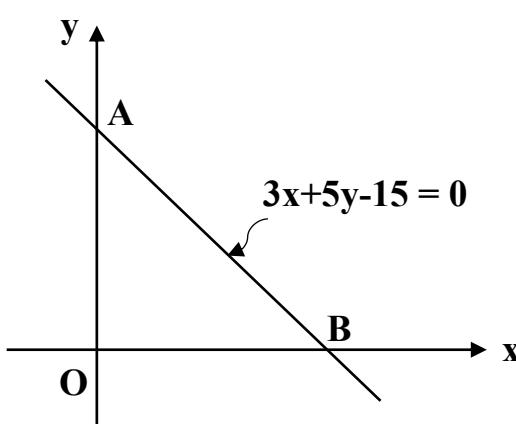
b)  $-2x^2 + 5x + 12$

5.



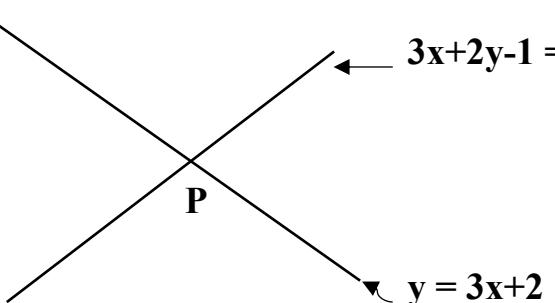
- a) Find the coordinates at the mid-point of line AB.
- b) Find the length of AB.
- c) Find the equation of line AB.

6.



Find the area of triangle AOB.

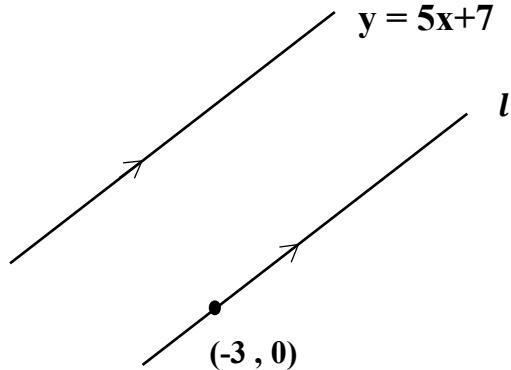
7.



Find the coordinates at point P.

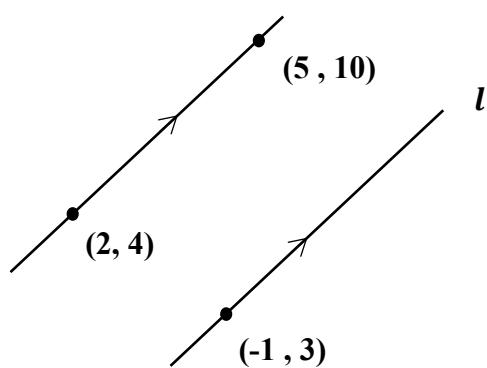
8. Find the equation of a straight line which passes through points  $(2, -1)$  and intersection point of lines  $3x + 4y = 5$  and  $y = 3x - 1$ .

9.



Find the equation of line  $l$ .

10.



Find the equation of line  $l$ .