Year 09
Weekly Tutorial - 01

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1. Expand and simplify.

a) $(3x+2)(x-5)$ **b)** $(2x-1)(3x+2)(x+2)$

2. Solve.

a) $5+2(x-1)=x+3$ **b)** $\frac{2x+3}{3}=\frac{x-5}{2}$

3. Find gradient and y-intercept of the straight line, $5x+2y+3=0$.

4. Factorize.

a) x^2-x-12 **b)** x^2-81 **c)** $6x^2+11x-10$

5. Simplify.

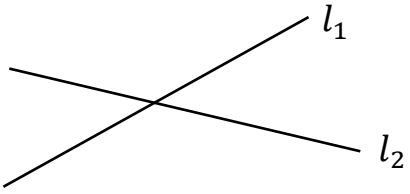
a) $(2x)^2\times 3x^3$ **b)** $\left(\frac{125}{64}\right)^{-\frac{2}{3}}$

6. Make x the subject; $y=\frac{15x-7}{5x-3}$

7. Solve, $2x-1>3(x+2)$, and show the solutions on the number line.

8. Solve by factorization, $2x^2-x-6=0$

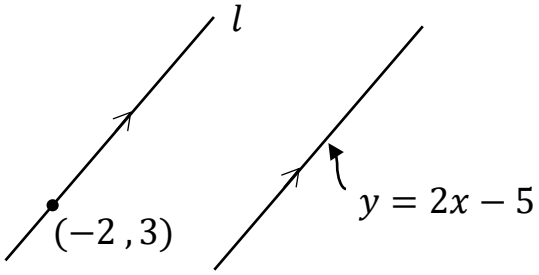
9. Find the coordinates at the intersection points of line l_1 and l_2.



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

$l_2 \equiv 2y+3x-1=0$

10.



Find the equation of line l.

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