

## 5D Intersections

1. The line  $y = 3x - 9$  crosses the  $x$ -axis at coordinate A. Find the equation of the line with gradient  $\frac{2}{3}$  that passes through A. Give your answer in the form  $ax + by + c = 0$  where  $a$ ,  $b$  and  $c$  are integers.

2. The lines  $y = 4x - 7$  and  $2x + 3y - 21 = 0$  intersect at point A. Point B has co-ordinates  $(-2, 8)$ . Find the equation of the line that passes through A and B