

1. Rewrite the equation as $y = mx + c$:

$$11y - 5x + 7 = 4 + 5x + 10y, \text{ so}$$

$$11y - 10y = 5x + 5x + 4 - 7$$

$$y = 10x - 3$$

Hence the gradient is $m = 10$ and the y -intercept is $c = -3$.

2. Rewrite the equation as $y = mx + c$:

$$6x - 2 + 9y = 3y - 2x - 8, \text{ so}$$

$$9y - 3y = -2x - 6x - 8 + 2$$

$$6y = -8x - 6$$

$$y = -\frac{4}{3}x - 1$$

Hence the gradient is $m = -\frac{4}{3}$ and the y -intercept is $c = -1$.

3. Rewrite the equation as $y = mx + c$:

$$-3 + 2y = -2x + 6y + 2, \text{ so}$$

$$2y - 6y = -2x + 2 + 3$$

$$-4y = -2x + 5$$

$$y = \frac{1}{2}x - \frac{5}{4}$$

Hence the gradient is $m = \frac{1}{2}$ and the y -intercept is $c = -\frac{5}{4}$.