FINDING EQUATIONS OF LINES – GIVEN TWO POINTS

METHOD 5 (Given two points on a line (x_1, y_1) and (x_2, y_2) , without graphing)

Calculate slope using $m = \frac{y_2 - y_1}{x_2 - x_1}$.

Calculate y-intercept using the slope and one of the points given. Substitute all values into y = mx + b and solve to get b. Rewrite the equation using values for **m** and **b** only.

Ex 8: Find the equation of the line passing through points (-3, -5) and (-1, 3)

Ex 9: Find the equation of the line passing through points (1, 4) and (2, 2)