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## 1 Equation of a line

The equation of a line is

$$y = mx + b,$$

where  $m$  is a slope and  $b$  is the  $y$ -intercept. Given two points  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$ , the slope  $m$  can be expressed by:

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