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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:

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