



A right-angled triangle is shown, representing a slope triangle. The horizontal base is labeled $\frac{dx}{dt} = 5$ and the vertical height is labeled $\frac{dy}{dt} = 3$. The hypotenuse is the line of best fit. The equation $\frac{dy}{dx} = \frac{3}{5}$ is written above the hypotenuse.

$$\frac{dy}{dx} = \frac{3}{5}$$

$$\frac{dy}{dt} = 3$$

$$\frac{dx}{dt} = 5$$