

Gradient - class exercise "Sports car"

Points used to determine gradient

$$(x_1, y_1) = (0, 0)$$

$$(x_2, y_2) = (8, 32)$$

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

$$m = \frac{32 - 0}{8 - 0}$$

$$m = 4$$

Units:

$$\text{unit for gradient} = \frac{\text{unit for } y \text{ axis}}{\text{unit for } x \text{ axis}}$$

$$= \frac{\text{ms}^{-1}}{\text{s}}$$

$$= \text{ms}^{-2}$$

The gradient for the sports car is 4ms^{-2} .