

Describing a relationship - class exercise.

"Sports Car"

[in words]

The velocity of the sports car is directly proportional to the time of its travel.

$$v \propto t$$

[mathematically]

dependent axis = v

independent axis = t

gradient = 4 ms^{-2}

intercept = 0 ms^{-1}

$$y = mx + c$$

$$v = 4t + 0$$

the mathematical relationship for the sports car
is, $v = 4t$