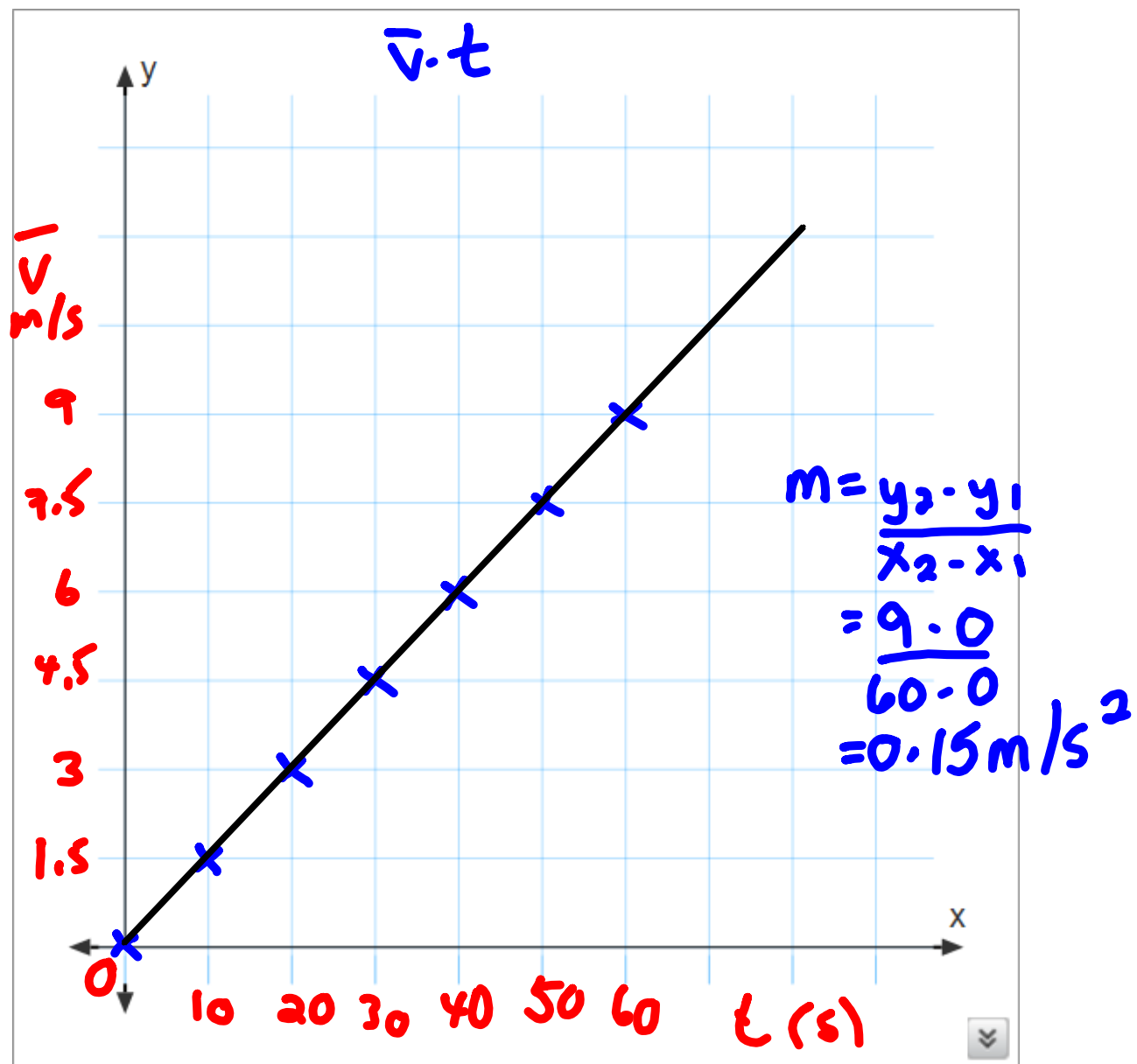


Velocity Time Graphs and Acceleration

Draw a graph for the following data and draw a line of best fit with slope.

t (s)	v (m/s)
0	0
10	1.5
20	3
30	4.5
40	6
50	7.5
60	9



- ~ The slope of a v-t graph equals acceleration.
- ~ if the graph is a straight line this indicates uniform acceleration.

~ negative slope on a \bar{v} t graph represents negative acceleration (deceleration)

Examples: Find the acceleration of a car moving at 105 km/h that comes to a stop in 6.0 s.

Example: Find the time required for a plane to change its velocity from 250 km/h [S] to 250 km/h [N] while accelerating uniformly at 8.0 m/s^2 [N]

