

**PHYSICS**

Kinematics

kinematics

Kinematikk

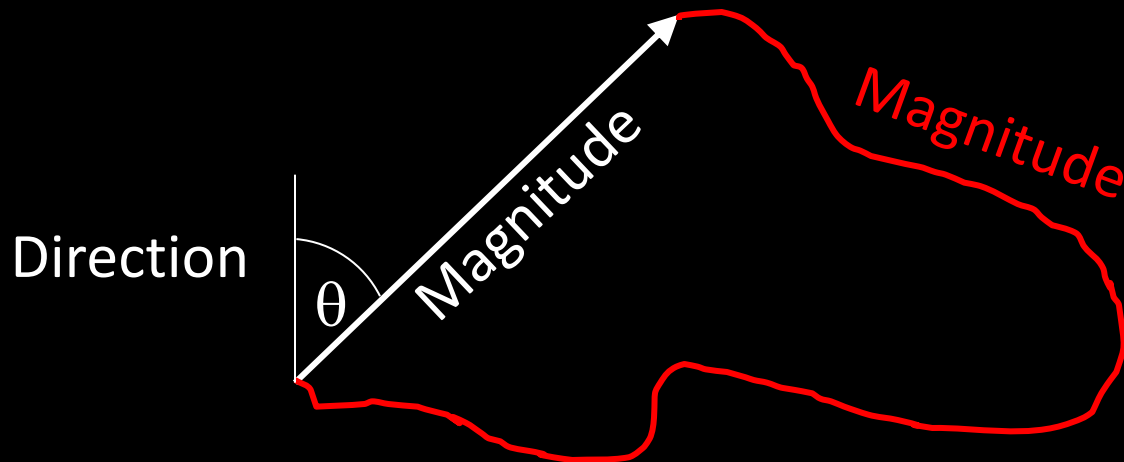
kinematikk

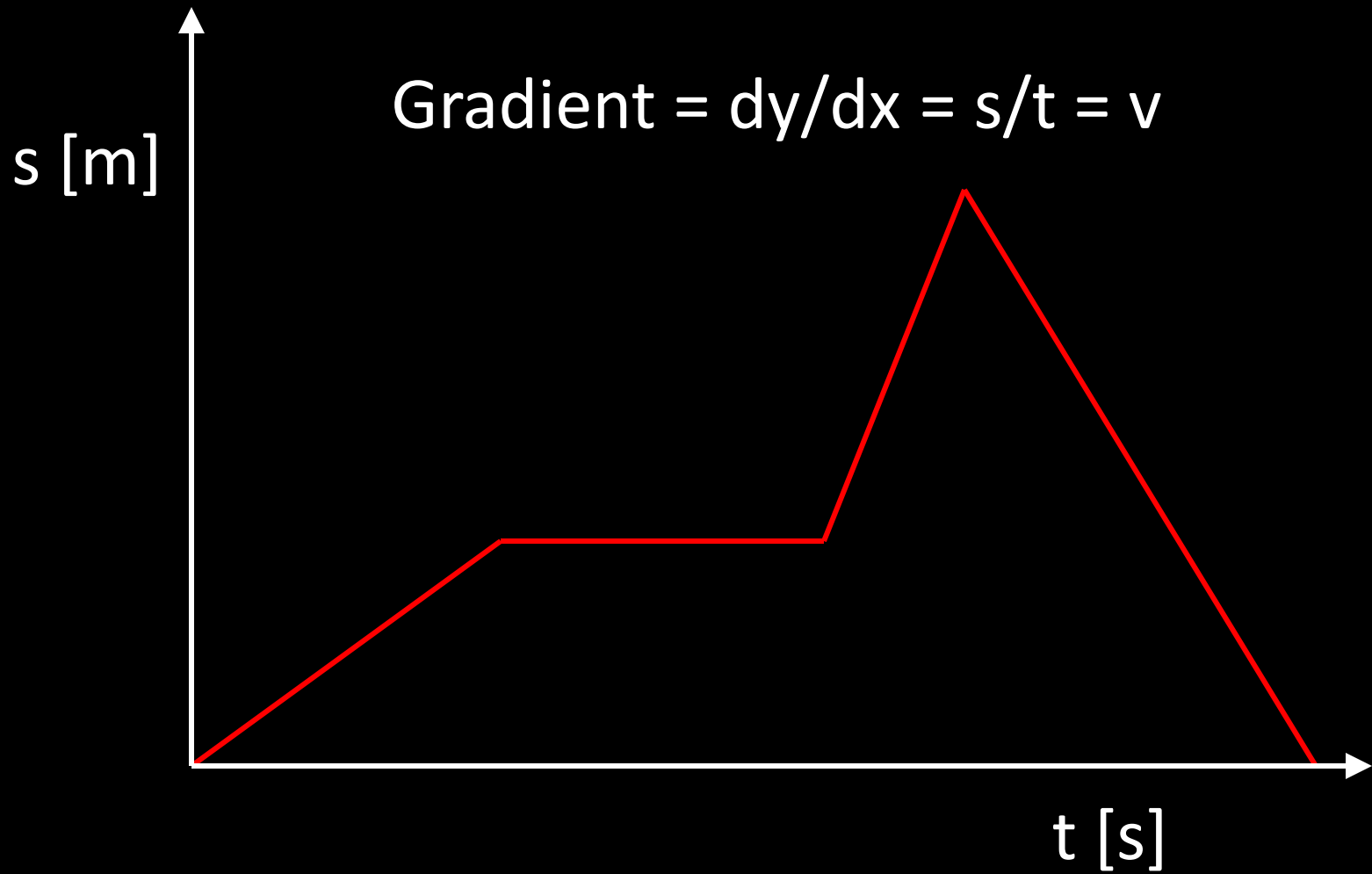
# Scalar

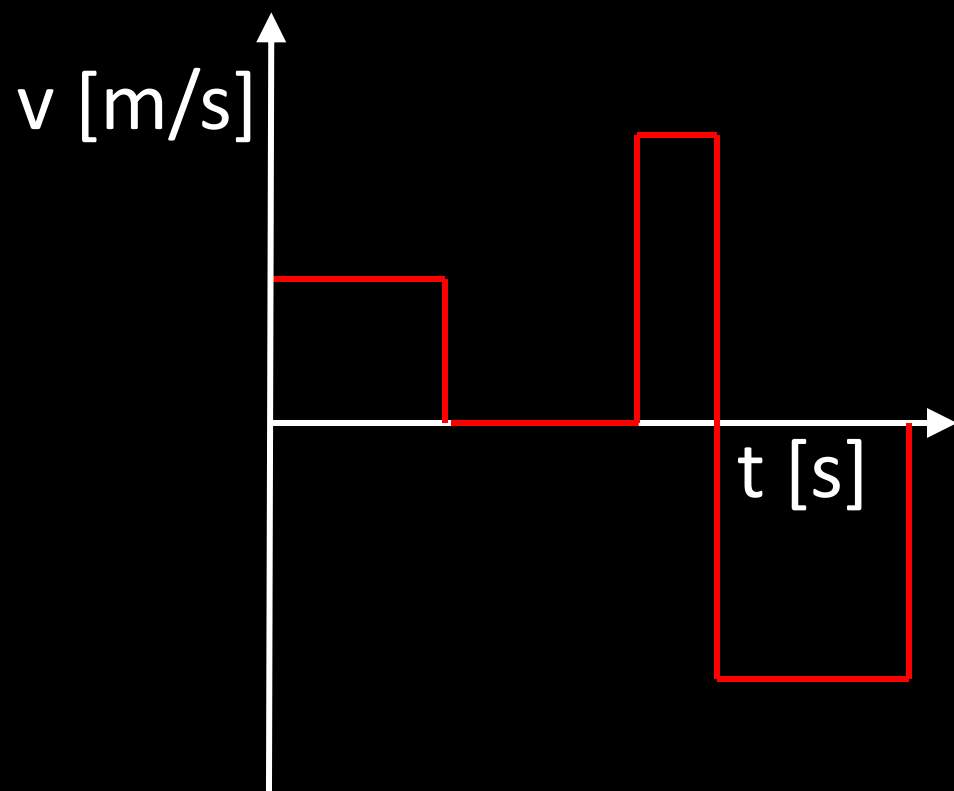
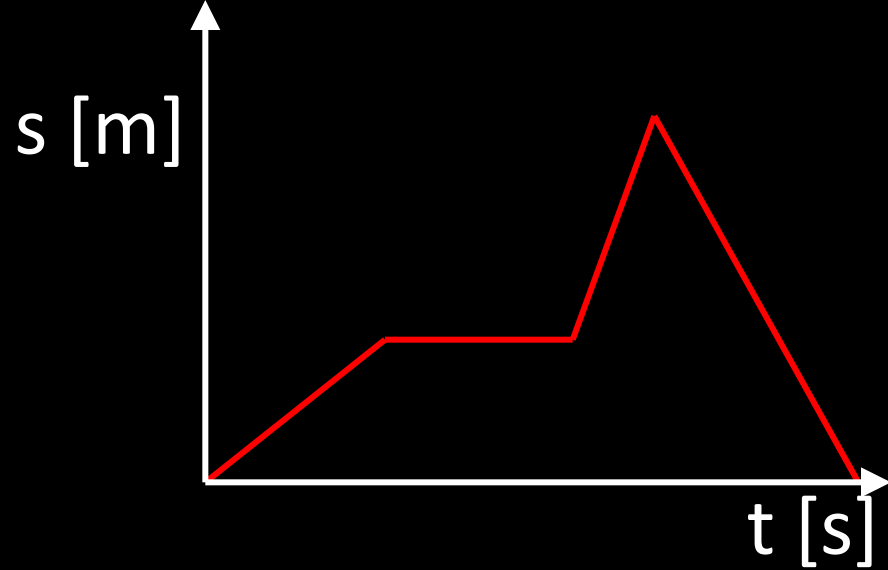
$$\text{Speed (v)} = \frac{\text{Distance (x)}}{\text{Time (t)}}$$

# Vector

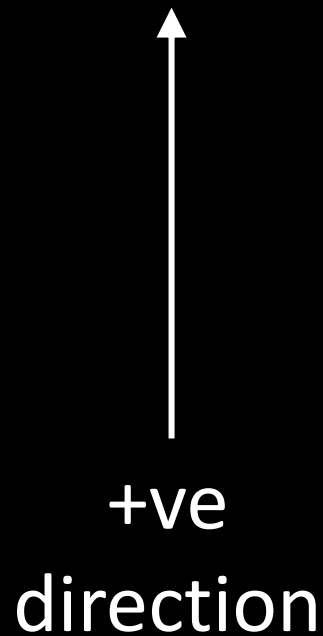
$$\text{Velocity (v)} = \frac{\text{Displacement (s)}}{\text{Time (t)}}$$







Consider the motion of a projectile  
(negligible air resistance)



If the acceleration due to gravity is  $-9.8 \text{ ms}^{-2}$

