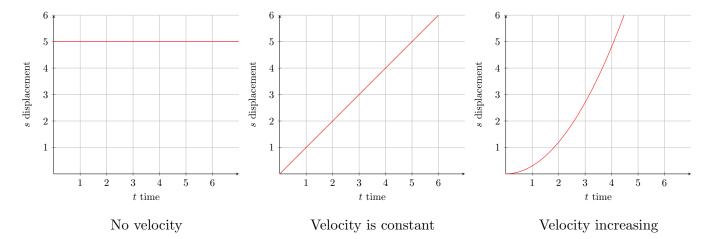
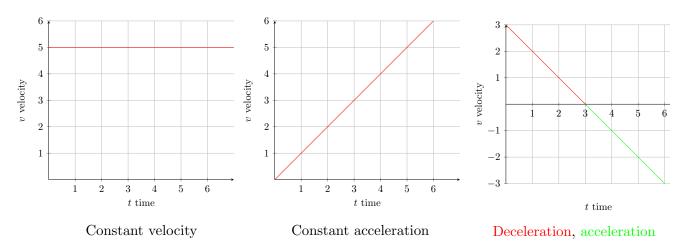
1 Graphs of motion:

1.1 Displacement-time graphs:



1.2 Velocity-time graphs:



2 Projectiles:

$$\frac{\text{Vertically}}{t = \sqrt{\frac{2s}{a}}} \tag{s}$$

$$s = ut \tag{m}$$

Where t is the object's **air-time**, s its **vertical displacement** from the ground, and a the **acceleration** due to gravity.

Where s is the object's **horizontal range**, t its **air-time** previously found and u its initial **push velocity**.