- 1) The Dodge Tomahawk can accelerate at an incredible 15.9 m/s ². How much time will it take to accelerate from 0 to 100.0 km/h?
- 2) A rock is falling downwards at 12.0 m/s. After 2.0 seconds it is falling at downwards at 31.6 m/s. What was its acceleration?



2.)
$$a = ?$$

$$\Delta V = -31.6 - (-12.0) = -19.6 \text{ m/s}$$

$$A = \Delta V = -19.6 \text{ m/s}$$

$$+ = 2.0 \text{ s}$$

$$= -9.8 \text{ m/s}^2$$

$$0 \text{ or}$$

$$9.8 \text{ m/s}^2 \text{ down}$$