

Acceleration vs Time Plots

- Gives acceleration at any time.
- Area gives change in velocity

Acceleration at $t=4$, $a(4) = -2 \text{ m/s}^2$

Change in v between $t=4$ and $t=1$. $\Delta v = +4 \text{ m/s}$

$$t=1-3: \Delta v = (3\text{m/s}^2)(2\text{s}) = 6 \text{ m/s}$$

$$t=3-4: \Delta v = (-2\text{m/s}^2)(1\text{s}) = -2 \text{ m/s}$$

