



Change
 $\Delta d = d_f - d_i$

$$v = \frac{\Delta d}{\Delta t} = \frac{d_f - d_i}{\Delta t}$$

a) 0 → 2s

$$v = \frac{d_f - d_i}{\Delta t} = \frac{10 - 0}{2} = 5 \frac{\text{m}}{\text{s}}$$

b) 0 → 4s

$$v = \frac{5 - 0}{4} = 1.25 \frac{\text{m}}{\text{s}}$$

c) 2 → 4s

$$v = \frac{5 - 10}{2} = -\frac{5}{2} = -2.5 \frac{\text{m}}{\text{s}}$$

d) 4 → 7s

$$v = \frac{-5 - 5}{3} = -\frac{10}{3} = -3.3 \frac{\text{m}}{\text{s}}$$

e) 0 → 8s

$$v = \frac{0 - 0}{8} = 0 \frac{\text{m}}{\text{s}}$$

#7

