



During which time interval is the speed greatest? Why?

A, because the slope is greatest

↓

(largest # without regard to sign)

Determine the speed and velocity for each segment

A (0, 40)
(4, 10)

$$\frac{40-10}{0-4} = \frac{30}{-4} = -7.5 \text{ m/s}$$

~~#~~ Velocity - 7.5 m/s
Speed 7.5 m/s

B (4, 10)
(10, 30)

$$\frac{30-10}{10-4} = \frac{20}{6} = 3.3 \text{ m/s}$$

Velocity 3.3 m/s
Speed 3.3 m/s

C (10, 30)
(18, 0)

$$\frac{0-30}{18-10} = \frac{-30}{8} = -3.8 \text{ m/s}$$

Velocity - 3.8 m/s
Speed 3.8 m/s