

1) A man walks south at a speed of 2.00 m/s for 15.0 minutes. He then turns around and walks north a distance 1000 m in 15.0 minutes. What is the average speed of the man during his entire motion (in m/s)?

- A) 3.35 B) 2.11 C) 1.56 D) 3.21 E) 2.82

2) The position of a particle moving along the x axis is given by $x(t) = (21 \text{ m}) + (22 \text{ m/s})t - (6.0 \text{ m/s}^2)t^2$, where t is in s. What is the average velocity during the time interval $t = 1.0 \text{ s}$ to $t = 3.0 \text{ s}$?

- A) 6.0 B) -8.0 C) -2.0 D) 16.0 E) 8.0

3) A rock is thrown downward from an unknown height above the ground with an initial speed of 10 m/s. It reaches the ground 3.5 s later. The initial height (in m) of the rock above the ground is:

- A) 60 B) 95 C) 25 D) 35 E) 0.0