

Answer on question #61557, Physics, Mechanics, Relativity

A football coach starts at the 10-yard line and walks to the 40-yard line. He turns around and walks to the 0 yard line. He turns once more and walks back to the 50 yard line. He turns around once more and walks back to the 25 yard line. In the next two minutes Thus completing his 10 minutes of pacing. The coaches average velocity is?

Solution:

$$V_{\text{aver}} = \frac{\Delta x}{\Delta t} = \frac{x_2 - x_1}{\Delta t}$$
$$V_{\text{aver}} = \frac{25 - 10}{10} = 1.5 \text{ y}/\text{min}$$

Answer: 1.5 y/min

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