

PROBLEM 11.1

A snowboarder starts from rest at the top of a double black diamond hill. As he rides down the slope, GPS coordinates are used to determine his displacement as a function of time: $x = 0.5t^3 + t^2 + 2t$ where x and t are expressed in ft and seconds, respectively. Determine the position, velocity, and acceleration of the boarder when $t = 5$ seconds.

SOLUTION

Position:

$$x = 0.5t^3 + t^2 + 2t$$

Velocity:

$$v = \frac{dx}{dt} = 1.5t^2 + 2t + 2$$

Acceleration:

$$a = \frac{dv}{dt} = 3t + 2$$

At $t = 5$ s,

$$x = 0.5(5)^3 + 5^2 + 2(5)$$

$$x = 97.5 \text{ ft} \quad \blacktriangleleft$$

$$v = 1.5(5)^2 + 2(5) + 2$$

$$v = 49.5 \text{ ft/s} \quad \blacktriangleleft$$

$$a = 3(5) + 2$$

$$a = 17 \text{ ft/s}^2 \quad \blacktriangleleft$$

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R. C. Hibbeler



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