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Chapter 1

Due: 11:59pm on Sunday, January 20, 2019

To understand how points are awarded, read the Grading Policy for this assignment.

Exercise 1.10

Description: The following conversions occur frequently in physics and are very useful. (a) Use 1 (mi)=5280 (ft) and 1 h = 3600 s to convert 50 mph to units of ft/s. (b) The acceleration of a freely falling object is 32 (ft)/s*2 . Use 1 (ft) = 30.48 (...

The following conversions occur frequently in physics and are very useful.

Part A.

Use 1 mi = 5280 ft and 1 h = 3600 s to convert 60 mph to units of ft/s.

Express your answer using two significant figures.

ANSWER:

88 ft/s

Part B

The acceleration of a freely falling object is $32 \, \mathrm{ft/s^2}$. Use $1 \, \mathrm{ft} = 30.48 \, \mathrm{cm}$ to express this acceleration in units of $\mathrm{m/s^2}$.

Express your answer using two significant figures.

ANSWER:

 $9.6 \cdot m/s^2$

Part C

The density of water is $1.0 \, \mathrm{g/cm^3}$. Convert this density to units of $\mathrm{kg/m^3}$.

Express your answer using two significant figures.

ANSWER:

1000 kg/m³

Exercise 1.34

Description: (a) Find the magnitude of the vector A_1_vec represented by the pair of components A_x_1 = A_x_1, A_y_1 = A_y_1. (b) Let the direction of a vector be the angle that the vector makes with the +x-axis, measured counterclockwise from that axis...

Part A.

Find the magnitude of the vector A_1 represented by the pair of components $A_{n_1}=-8.30~{
m cm}$, $A_{n_1}=1.90~{
m cm}$.

ANSWER:

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