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Chapter 1

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Chapter 1

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

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Exercise 1.10

Description: The following conversions occur frequently in physics and are very useful. (a) Use $1 \text{ (mi)} = 5280 \text{ (ft)}$ and $1 \text{ h} = 3600 \text{ s}$ to convert 60 mph to units of ft/s . (b) The acceleration of a freely falling object is $32 \text{ (ft/s}^2\text{)}$. Use $1 \text{ (ft)} = 30.48 \text{ (cm)}$...

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

Part A

Use $1 \text{ mi} = 5280 \text{ ft}$ and $1 \text{ h} = 3600 \text{ s}$ 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 ft/s^2 . Use $1 \text{ ft} = 30.48 \text{ cm}$ to express this acceleration in units of m/s^2 .

Express your answer using two significant figures.

ANSWER:

9.8 m/s²

Part C

The density of water is 1.0 g/cm^3 . Convert this density to units of 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 $A_{1x_1} = A_{1x_1}$, $A_{1y_1} = A_{1y_1}$. (b) Let the direction of a vector be the angle that the vector makes with the $+x$ -axis, measured counterclockwise from that axis...

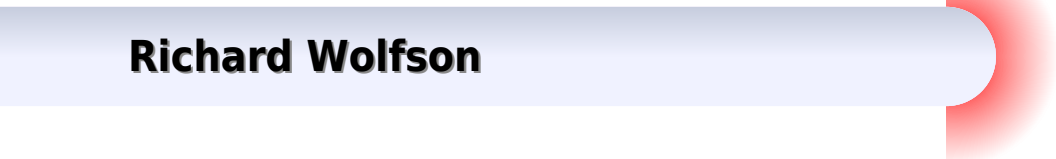
Part A

Find the magnitude of the vector $\vec{A}_1$ represented by the pair of components $A_{1x} = -8.30 \text{ cm}$, $A_{1y} = 1.90 \text{ cm}$.

ANSWER:

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Richard Wolfson



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