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# Chapter 1

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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  $1 \text{ (mi)} = 5280 \text{ (ft)}$  and  $1 \text{ h} = 3600 \text{ s}$  to convert  $60 \text{ mph}$  to units of  $\text{ft/s}$ . (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  $60 \text{ mph}$  to units of  $\text{ft/s}$ .

Express your answer using two significant figures.

ANSWER:

88 ft/s

#### Part B

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

Express your answer using two significant figures.

ANSWER:

9.8 m/s<sup>2</sup>

#### Part C

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

Express your answer using two significant figures.

ANSWER:

1000 kg/m<sup>3</sup>

### 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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**L Darling-Hammond**



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