

Prob. 1.1

$$(a) c = \sqrt{10^2 + 7^2} = 12.21 \text{ ft}$$

$$(b) b = \sqrt{20^2 - 16^2} = 12.00 \text{ m}$$

Prob. 1.2

$$(a) a = 25 \sin 48^\circ = 18.58 \text{ ft}$$

$$(b) b = \sqrt{25^2 - 18.58^2} = 16.73 \text{ ft}$$

$$(c) h = b \sin 48^\circ = 16.73 \sin 48^\circ = 12.43 \text{ ft}$$

Prob. 1.3

$$a = \sqrt{72^2 - 67.3^2} = 25.59 \text{ ft}$$

$$A = \cos^{-1}(67.3/72) = 20.8^\circ$$

$$B = \sin^{-1}(67.3/72) = 69.2^\circ$$

Prob. 1.4

$$AB = 28 \sin 70^\circ = 26.3 \text{ ft}$$

Prob. 1.5

$$c = \sqrt{10^2 + 6^2} = 11.6 \text{ ft}$$

$$\theta = \tan^{-1}(6/10) = 31.0^\circ$$

Prob. 1.6

$$AB = \sqrt{12^2 + 16^2} = 20 \text{ ft}$$

$$BC = \sqrt{12^2 + 32^2} = 34.2 \text{ ft}$$

$$A = \tan^{-1}(12/16) = 36.9^\circ$$

$$C = \tan^{-1}(12/32) = 20.6^\circ$$

Prob. 1.7

$$\theta = \sin^{-1}(5/6) = 56.4^\circ$$

$$x = \sqrt{12^2 + 10^2} = 6.63 \text{ ft}$$

Prob. 1.8

Assume all angles to be 45°

$$R_x = +2 + 3 \cos 45^\circ + 0 - 6 \sin 45^\circ = 0.1213 \text{ mi}$$

$$R_y = 0 - 3 \sin 45^\circ + 6 - 6 \sin 45^\circ = -0.364 \text{ mi.}$$

$$R = \sqrt{(-0.1213)^2 + (-0.364)^2} = 0.384 \text{ mi.}$$

Prob. 1.9

(a)

$$c^2 = 11^2 + 13^2 - 2(11)(13)\cos 80^\circ$$

$$= 15.50 \text{ ft}$$

$$\frac{\sin 80^\circ}{15.50} = \frac{\sin A}{11} = \frac{\sin B}{13}$$

$$\rightarrow A = 44.3^\circ, B = 55.7^\circ$$

(b)

$$a^2 = 78^2 + 85^2 - 2(78)(85)\cos 72^\circ$$

$$= 96.0 \text{ ft}$$

$$\frac{\sin 72^\circ}{a} = \frac{\sin C}{85} = \frac{\sin B}{78}$$

$$\rightarrow A = 57.4^\circ, B = 50.6^\circ$$

(c) Right Triangle Check

$$\text{Check } a^2 + b^2 = c^2$$

$$A = \tan^{-1}(7/24) = 16.26^\circ$$

$$B = \tan^{-1}(24/7) = 73.7^\circ$$

Prob. 1.10

$$C = 180^\circ - 55^\circ - 63^\circ = 62^\circ$$

$$\frac{a}{\sin 63^\circ} = \frac{100}{\sin 55^\circ} = \frac{c}{\sin 62^\circ}$$

$$\therefore a = \frac{\sin 63^\circ}{\sin 55^\circ} (100) = 108.8 \text{ ft}$$

$$\& c = \frac{\sin 62^\circ}{\sin 55^\circ} (100) = 107.8 \text{ ft}$$

$$\text{Perimeter} = a + b + c = 317 \text{ ft}$$

Prob. 1.11

S = wt of one shock

P = wt of one set of brake pads

$$\text{Eq1: } 8S + 10P = 101.6 \text{ lb}$$

$$\text{Eq2: } 10S + 6P = 106.2 \text{ lb}$$

Multiply Eq2 by 8/10:

$$\text{Eq3: } 8S + 4.8P = 84.96 \text{ lb}$$

$$\begin{array}{r} 8S + 10P = 101.6 \text{ lb} \\ - 8S - 4.8P = -84.96 \text{ lb} \\ \hline 5.2P = 16.64 \text{ lb} \end{array}$$

$$P = 3.20 \text{ lb}$$

$$\therefore S = 8.70 \text{ lb}$$

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