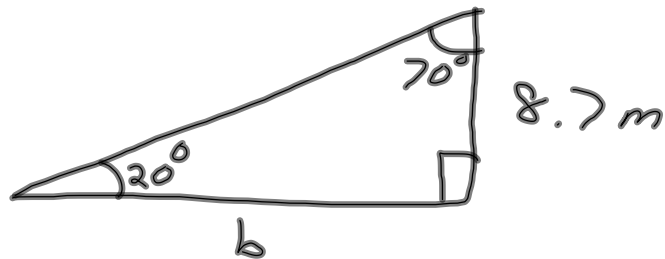


(47)

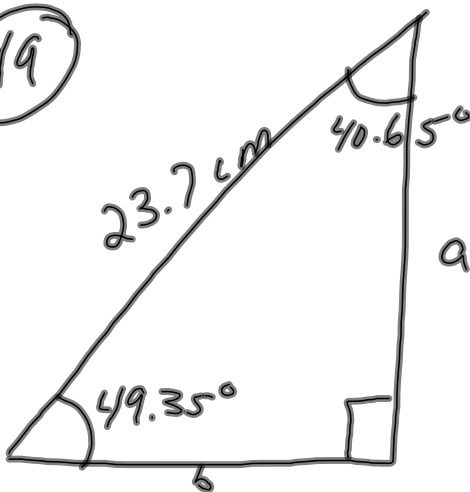


$$\tan 20^\circ = \frac{8.7 \text{ m}}{b}$$

$$b = \frac{8.7 \text{ m}}{\tan 20^\circ} = 23.90 \text{ m}$$

Dec 1-7:25 AM

(49)



$$\sin 49.35^\circ = \frac{a}{23.7 \text{ cm}}$$

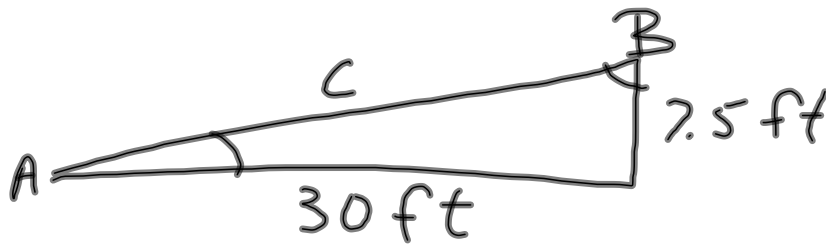
$$a = 23.7 \text{ cm} (\sin 49.35^\circ) = 17.98 \text{ m}$$

$$b = \sqrt{c^2 - a^2}$$

$$= 15.44$$

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(56)



$$C = \sqrt{a^2 + b^2} = \sqrt{30^2 + 7.5^2} = 30.92$$

$$\theta_A = \sin^{-1}\left(\frac{7.5}{30.92}\right) = 14.06^\circ$$

$$B = \cos^{-1}\left(\frac{7.5}{30.92}\right) = \sin^{-1}\left(\frac{30}{30.92}\right)$$

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(48)



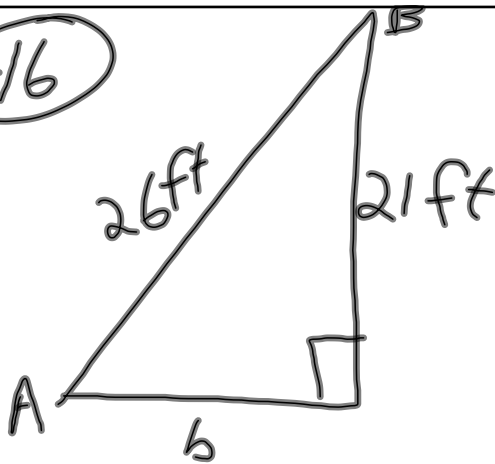
$$C = \sqrt{a^2 + b^2} = 22.15$$

$$A = \sin^{-1}\left(\frac{19.5}{22.15}\right) = 61.69^\circ$$

$$B = 28.31^\circ$$

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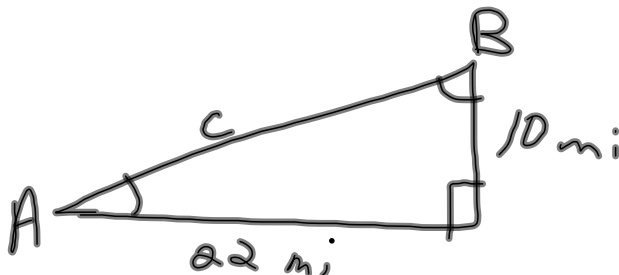
$$b = \sqrt{c^2 - a^2} = \sqrt{26^2 - 21^2} = 15.33 \text{ ft}$$

$$A = \sin^{-1}\left(\frac{21 \text{ ft}}{26 \text{ ft}}\right) = 53.87^\circ$$

$$B = 36.13^\circ = 90^\circ - 53.87^\circ$$

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$$c = \sqrt{22^2 + 10^2} = 24.17 \text{ mi}$$

$$A = \sin^{-1}\left(\frac{10 \text{ mi}}{24.17 \text{ mi}}\right) = 24.63^\circ$$

$$B = 90^\circ - 24.63^\circ = 65.37^\circ$$

Dec 1-7:48 AM