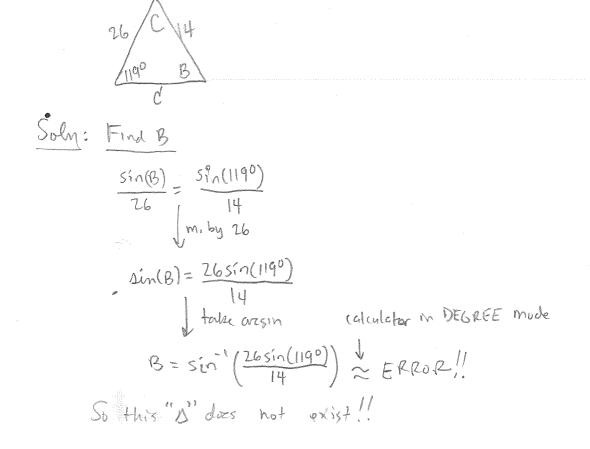
\$10.1 #14 A=1190, a=14, b=26

Homework 12 Spring 2020



$$\frac{\#15}{C} = 113^{\circ}, b = 10, c = 32$$

$$\frac{10}{10} \xrightarrow{A} 32$$

$$\frac{32}{10} \xrightarrow{B} 32$$

$$\frac{50 \ln 7}{10} = \frac{5in(113^{\circ})}{32}$$

$$\int mult by 10$$

$$5in(6) = \frac{105in(113^{\circ})}{32}$$

$$\int telex corsin$$

$$B = sin^{-1} \left(\frac{105in(113^{\circ})}{32}\right) \approx 16.72^{\circ}$$

$$\frac{B_{econd}}{10} = 180^{\circ} - 16.72^{\circ}$$

$$\frac{103.28^{\circ}}{10}$$

$$Too big because known angle is 113^{\circ}$$

$$Only one solution?$$

Find A

$$Hq^{0} + H_{0}Tz^{0} + C = 180^{0}$$

$$C = 180^{0} - 110^{0} - 10.7z^{0} = 44.23^{0}$$
Find A

$$\frac{\sin(44.28^{0})}{a} = \frac{\sin(119^{0})}{14}$$
Multiply by a to get

$$Sin(44.28^{0}) = a \frac{\sin(119^{0})}{14}$$
Multiply by a to get

$$a = \frac{14}{14} \frac{\sin(44.28^{0})}{14} \approx 11.175$$

$$\frac{a}{5} = \frac{14}{5} \frac{\sin(44.28^{0})}{14^{0}} \approx 11.175$$

$$\frac{1220}{7}$$
Solar : Find A

$$\frac{\sin(28^{0})}{3} = \frac{\sin(A)}{7}$$

$$\frac{1}{7}$$

$$Sin(A) = \frac{7}{7} \sin(29^{0})}{3} \approx 71.632$$
Solar : 108.368^{0}
Solar : 108.368^{0}

Two solutions:

A=71.632° Find C $71.632^{\circ} + 24^{\circ} + C = 180^{\circ}$ V C=180°-71.632°-24° : 84.368° Find C $\frac{\sin(84.368^{\circ})}{2} = \frac{\sin(24^{\circ})}{3}$ $d = \frac{3sin(84.368^{\circ})}{sin(24^{\circ})}$ \approx 7.340 · .

$$A = 108.368^{\circ}$$
Find C

$$108.368^{\circ} + 24^{\circ} + C = 180^{\circ}$$

$$C = 180^{\circ} - 108.368^{\circ} - 24^{\circ}$$

$$= 47.632^{\circ}$$
Find C

$$\frac{5in(47.632^{\circ})}{C} = \frac{5in(24^{\circ})}{3}$$

$$C = \frac{35in(47.632^{\circ})}{5in(24^{\circ})}$$

$$\approx 5.449$$

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