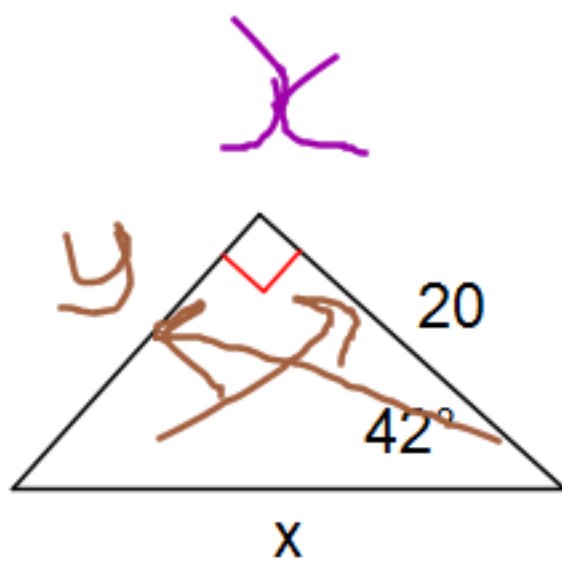


Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

Max. 6

1)



z

$$\angle x = 90^\circ \quad x = 26.9$$

$$\angle y = 42^\circ \quad y = 18$$

$$\angle z = 48^\circ \quad z = 20$$

$$\angle z = 180 - (90 + 42)$$

$$\angle z = 48^\circ$$

$$\cos 42^\circ = \frac{20}{x}$$

$$\frac{x \cos 42^\circ}{\cos 42^\circ} = \frac{20}{\cos 42^\circ}$$

$$x = 26.9$$

$$\cos 42^\circ = \frac{20}{x}$$

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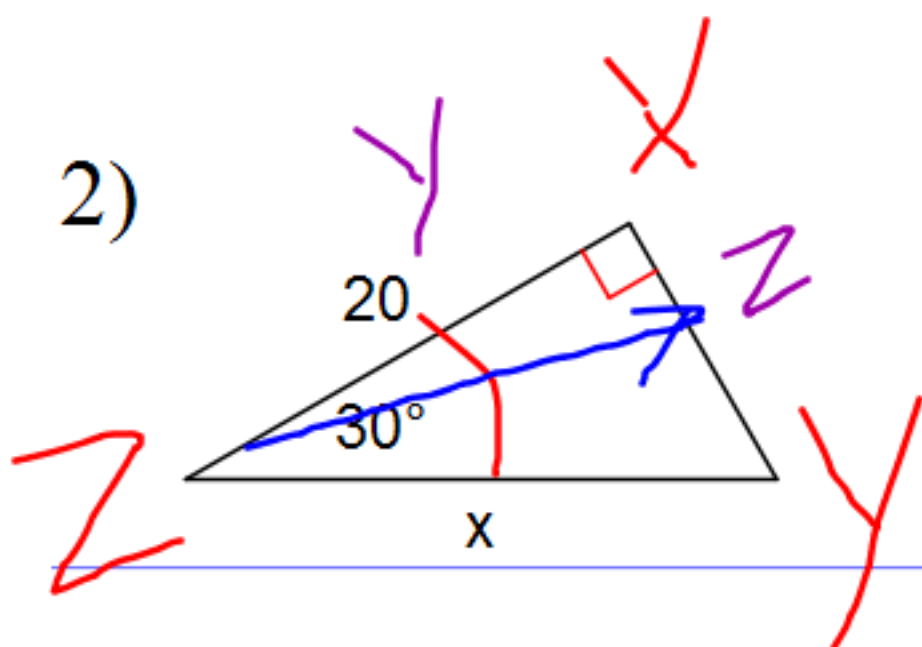
Jump



1-up

Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

2)



$$\angle X = 90^\circ \quad x = 23.1$$

$$\angle Y = 60^\circ \quad y = 20$$

$$\angle Z = 30^\circ \quad z = 11.5$$

$$180 - (30 + 90) = 60^\circ$$

$$\cos 30^\circ = \frac{A}{H}$$

$$\cos 30^\circ = \frac{20}{x}$$

$$\frac{x \cos 30^\circ}{\cos 30^\circ} = \frac{20}{\cos 30^\circ}$$

$$x = 23.1$$

$$\tan 30^\circ = \frac{O}{A}$$

$$\tan 30^\circ = \frac{Z}{20}$$

$$20 \tan 30^\circ = Z$$

$$11.54$$

$$Z = 11.5$$

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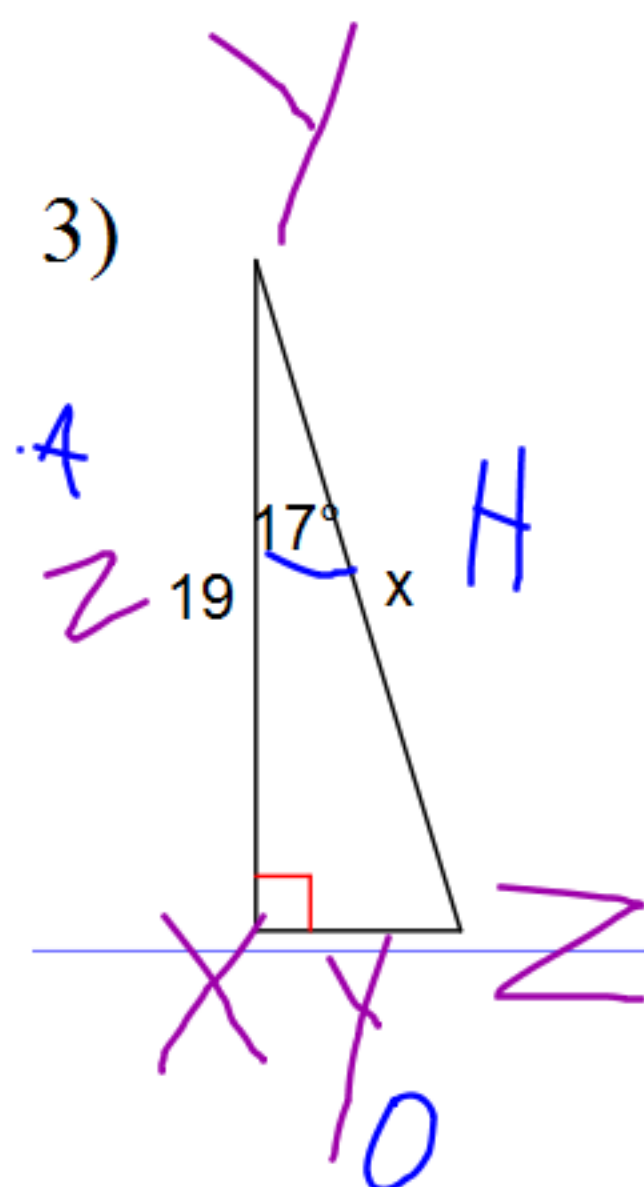
Jump



1-up

Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

3)



$$180 - (90 + 17) = 73$$

$$\begin{aligned} \angle X &= 90^\circ & x &= 19.9 \\ \angle Y &= 17^\circ & y &= 5.0 \\ \angle Z &= 73^\circ & z &= 19 \end{aligned}$$

$$\cos 17^\circ = \frac{A}{H}$$

$$\cos 17^\circ = \frac{19}{x}$$

$$\frac{x \cos 17^\circ}{\cos 17} = \frac{19}{\cos 17} \quad x = 19.9$$



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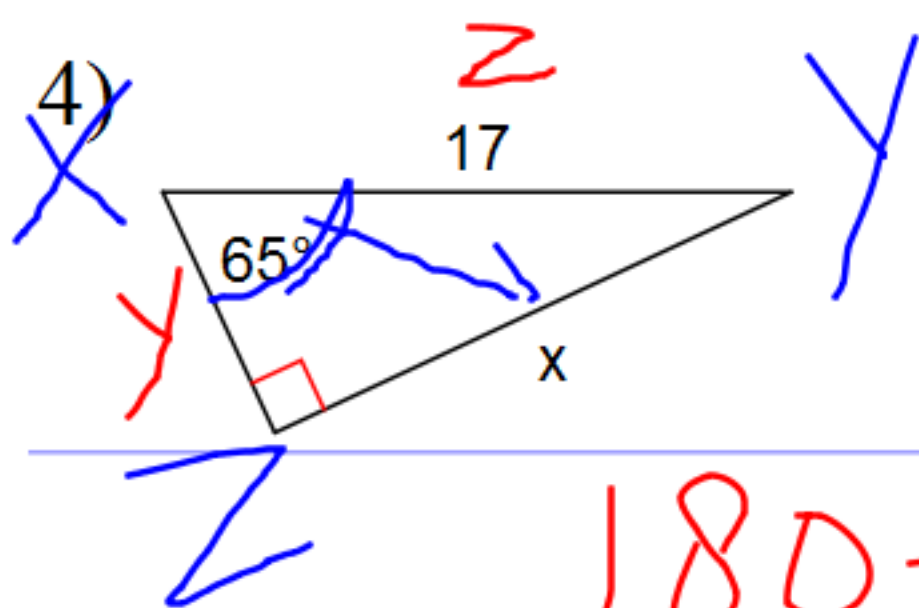


Jump



1-up

Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.



$$\begin{aligned}\angle X &= 65^\circ & x &= 15.4 \\ \angle Y &= 25^\circ & y &= 7.2 \\ \angle Z &= 90^\circ & z &= 17\end{aligned}$$

$$180 - (65 + 90) = 25$$

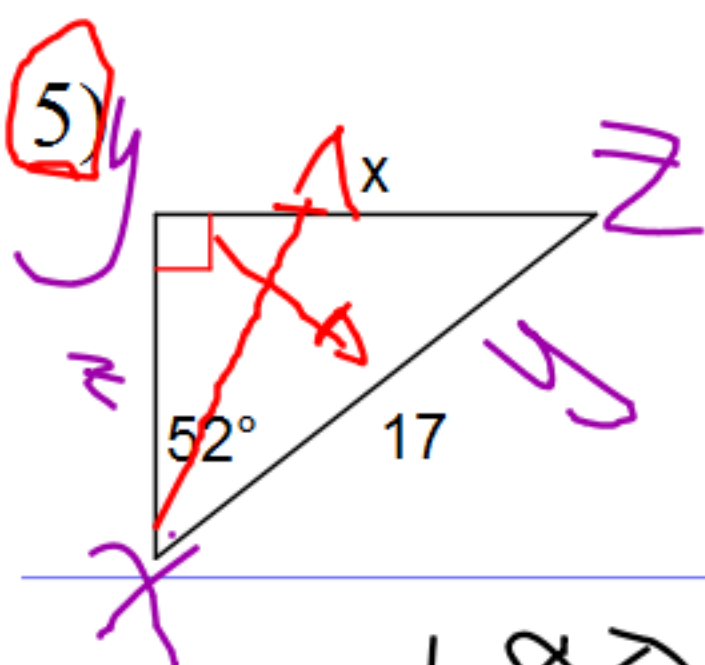
$$\sin 65^\circ = \frac{O}{H}$$

$$\sin 65^\circ = \frac{x}{17}$$

$$17 \sin 65^\circ = x$$

$$x = 15.4$$

Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.



$$\angle X = 52^\circ \quad x = 13.4$$

$$\angle Y = 90^\circ \quad y = 17$$

$$\angle Z = 38^\circ \quad z = 10.5$$

$$180 - (90 + 52)$$



38

$$\sin 52^\circ = \frac{x}{17} \rightarrow 17 \sin 52^\circ = x$$

$$\sin 52^\circ = \frac{x}{17}$$

$$x = 13.4$$

$$a^2 + b^2 = c^2$$

$$z^2 + 13.4^2 = 17^2$$

$$z^2 + 179.56 = 289$$

$$z^2 = 289 - 179.56$$

$$z^2 = 109.44$$

$$z = 10.5$$