



Math 11C

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Trigonometry # 2: Finding Angles

Name _____ ID: 1

Date _____

Find each angle measure to the nearest degree.

1) $\sin A = 0.9903$

2) $\sin W = 0.9945$

$$\sin^{-1} = 82$$

3) $\cos W = 0.9976$

4) $\cos V = 0.9703$

5) $\cos W = 0.9563$

6) $\cos V = 0.8910$

7) $\tan V = 0.3249$

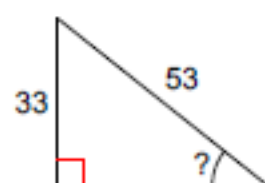
8) $\tan U = 1.1504$

9) $\tan U = 19.0811$

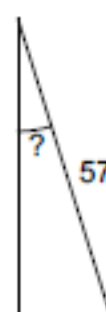
10) $\tan Z = 0.7265$

Find the measure of the indicated angle to the nearest degree.

11)



12)



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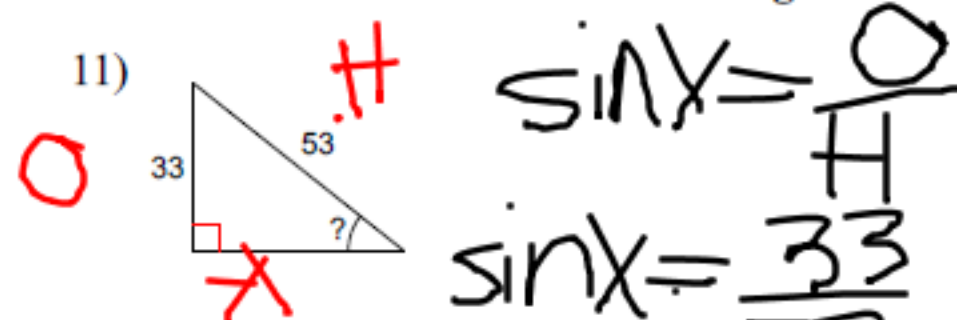
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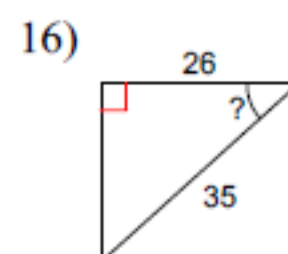
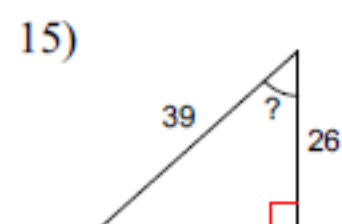
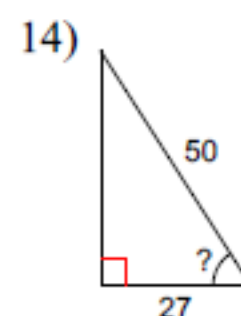
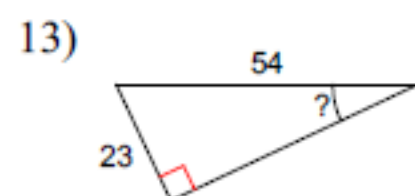
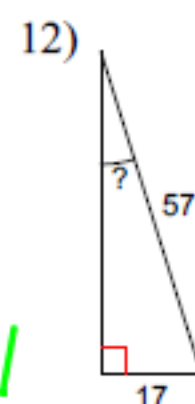
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Find the measure of the indicated angle to the nearest degree.



$$\sin X = \frac{33}{53}$$
$$\sin X = 0.6226$$
$$= 39^\circ$$



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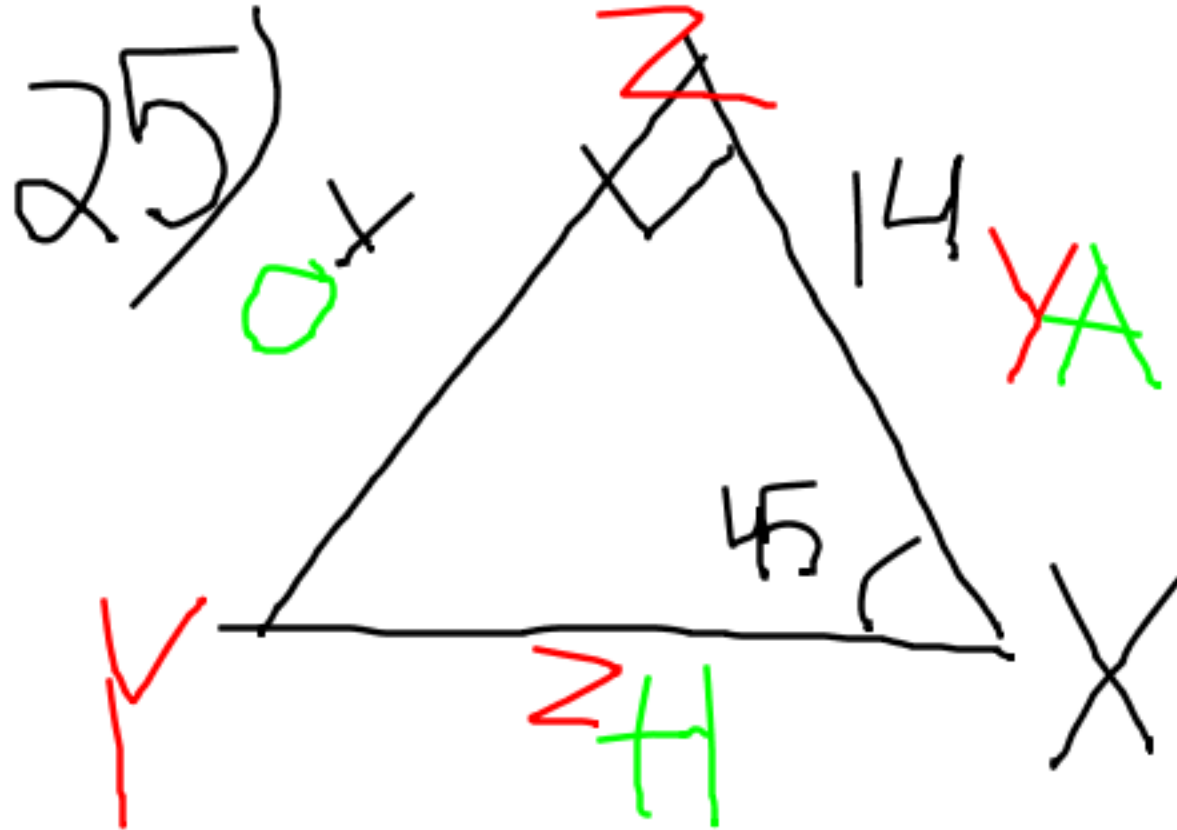


$$\cos \frac{0}{h}$$

$$\sqrt{\cos x^{-1}} = 0.66666666^{-1}$$

$$\cos \frac{26}{39}$$

$$x = 45^\circ$$



$$\begin{aligned} X &= 45^\circ & x &= 14 \\ Y &= 45^\circ & y &= 14 \\ Z &= 90^\circ & z &= 20 \end{aligned}$$

$$\cos X = \frac{A}{H}$$

$$\cos 45 = \frac{14}{Z}$$

$$\frac{14}{\cos 45} = \frac{(\cos 45)(Z)}{\cos 45}$$

$$20 = Z$$

$$\angle Y = 180 - 90 - 45$$

$$\angle Y = 45^\circ$$