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1-up

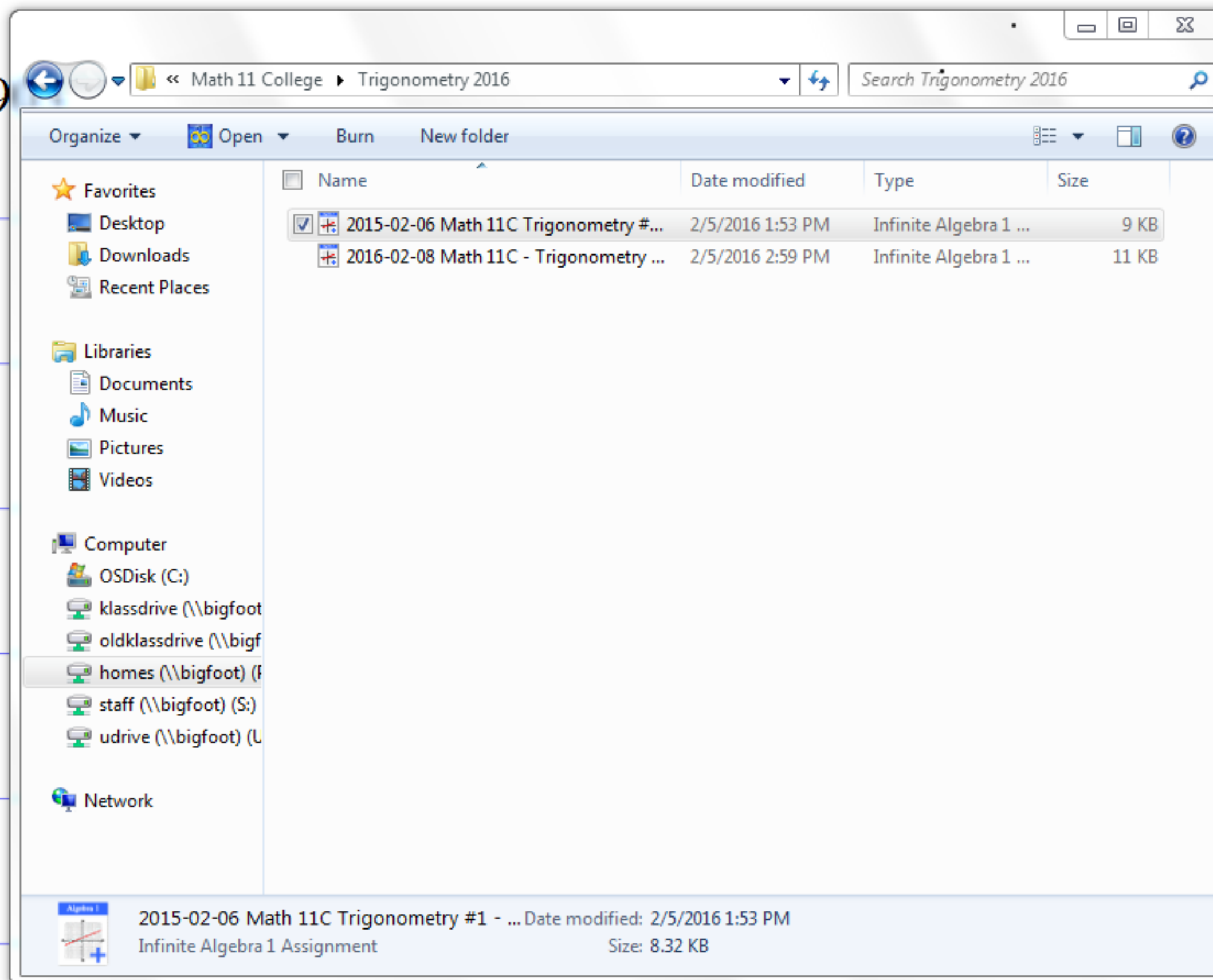
Find each angle measure to the nearest degree.

1) $\sin A = 0.99$

$$\sin^{-1} A$$

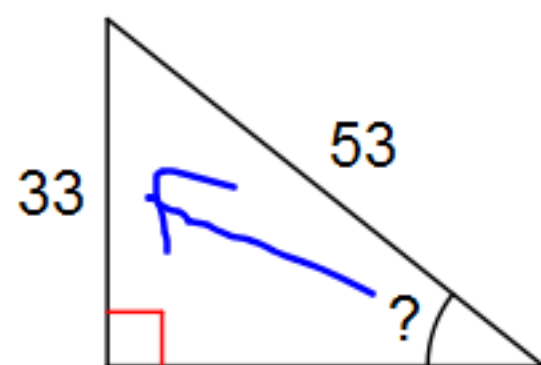
$$= 81.01$$

$$= 81^\circ$$



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

11)



x

SOH + CAH + TOA

$$\sin x = \frac{O}{H}$$

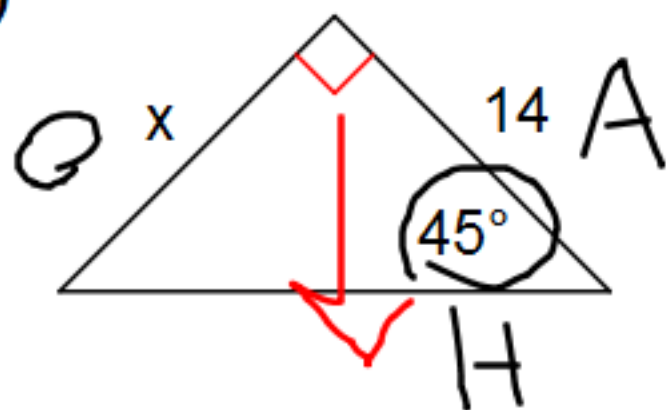
$$\sin x = \frac{33}{53}$$

$$\sin x = 0.6226$$

$$\sin^{-1} x = 39^\circ$$

Solve the triangle - all sides all angles.

31)



A
O

$$\sin(A) = \frac{O}{A}$$

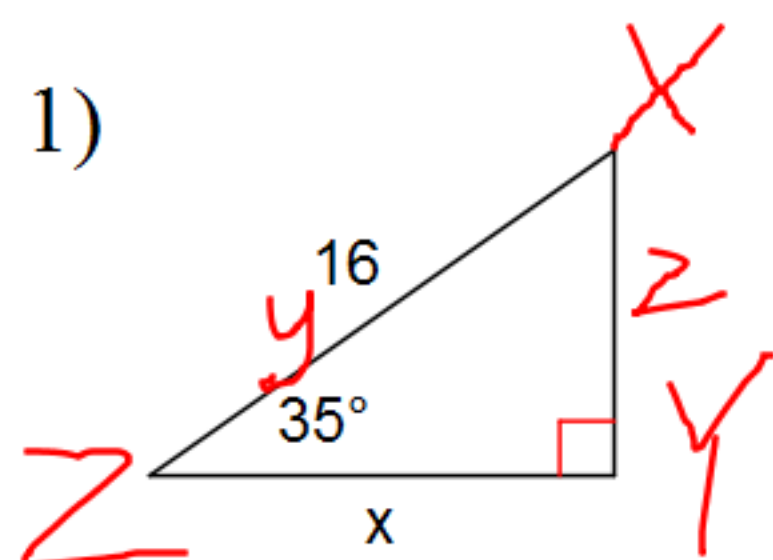
$$\tan 45^\circ = \frac{O}{A}$$

$$14 \times \tan 45^\circ = \frac{x}{14} \times 14$$

$$x = \tan 45^\circ (14)$$

$$= 14$$

Find the missing side. Round to the nearest tenth.



$$\begin{array}{ll}
 X = 55^\circ & X = 13 \\
 Y = 90^\circ & y = 16 \\
 Z = 35^\circ & z = 9.3
 \end{array}$$

$$180 - (90 + 35)$$

$$180 - 125 = 55^\circ$$

$$\begin{array}{l}
 a^2 + b^2 = c^2 \\
 13^2 + z^2 = 16^2 \\
 169 + z^2 = 256 - 169 \\
 z^2 = 87 \\
 \sqrt{87} = 9.3
 \end{array}$$

$$\begin{array}{l}
 \cos Z = \frac{A}{H} \\
 \cos 35 = \frac{z}{16} \\
 16 \cos 35 = z \\
 13 = z
 \end{array}$$