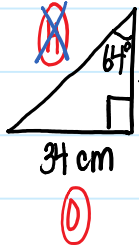


U6L3 Sine and Cosine Ratio

May-06-15 8:46 AM

A Review

Try 1)



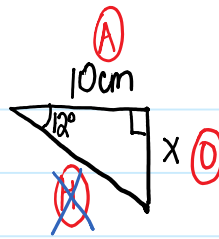
✓ label O, H, A
 ✓ choose a ratio TOA
 ✓ $\tan 64 = \frac{O}{A}$

• solve for x.

$$\frac{\tan 64}{1} = \frac{34}{x}$$

$$x \cdot \cancel{\tan 64} = \frac{34}{\cancel{\tan 64}}$$

$$\boxed{x = \frac{34}{\tan 64} = 16.58} \checkmark$$

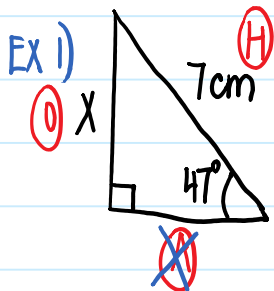


$$\frac{\tan 12}{1} = \frac{x}{10}$$

$$\boxed{x = 10 \cdot \tan 12 = 2.13} \checkmark$$

B Sine & Cosine Ratios → find side x

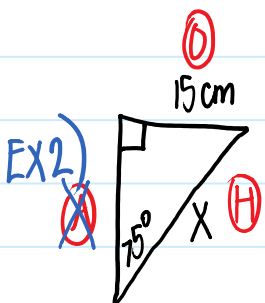
SOH or CAH



SOH $\sin 47 = \frac{O}{H}$

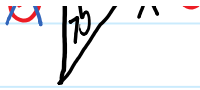
$$\frac{\sin 47}{1} = \frac{x}{7}$$

$$\boxed{x = 7 \cdot \sin 47 = 5.12 \text{ cm}} \checkmark$$



SOH $\sin 75 = \frac{O}{H}$

$$\frac{\sin 75}{1} = \frac{x}{15}$$

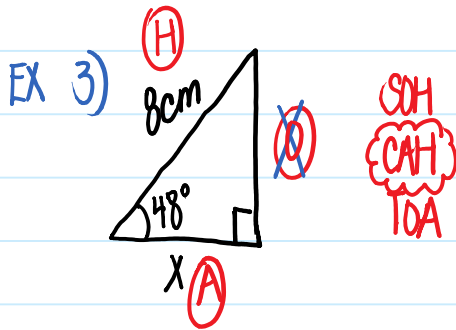


$$\frac{\sin 75}{1} = \frac{15}{X}$$

$$X \cdot \cancel{\sin 75} = \frac{15}{\cancel{\sin 75}}$$

$$X = \frac{15}{\sin 75}$$

$$X = 15.53 \text{ cm} \checkmark$$

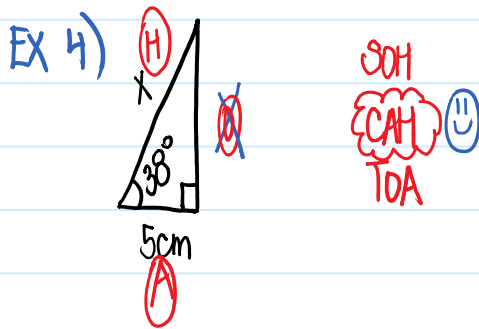


$$\cos 48^\circ = \frac{A}{H}$$

$$\frac{\cos 48^\circ}{1} = \frac{X}{8}$$

$$X = 8 \cdot \cos 48^\circ$$

$$X = 5.35 \text{ cm} \checkmark$$



$$\cos 38^\circ = \frac{A}{H}$$

$$\frac{\cos 38^\circ}{1} = \frac{5}{X}$$

$$X \cdot \cancel{\cos 38} = \frac{5}{\cancel{\cos 38}}$$

$$X = \frac{5}{\cos 38}$$

$$X = 6.35 \text{ cm} \checkmark$$

Assignment: U6L3 wkst #2-4 (A)(C) (FRONT) #2-4 (A)(C) (BACK)