

1-17-20 6th Geo

$$\frac{8}{3} = 2.66666667 \boxed{6}$$

round up

$$2.\overline{6}$$

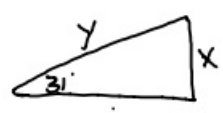
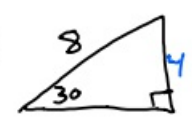
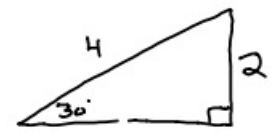
~~$$2.\overline{66}$$~~

$\overline{.6}$ vs. $.6$

$$\frac{2}{3}$$

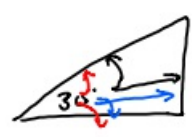
$$\frac{3}{5}$$

Today's lesson

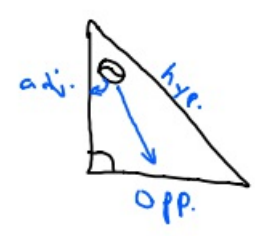
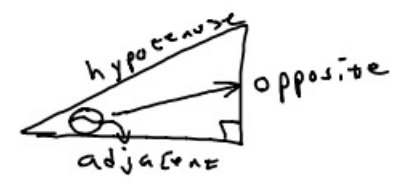


Ratio: $\frac{1}{2}$

Ratio: .515038..

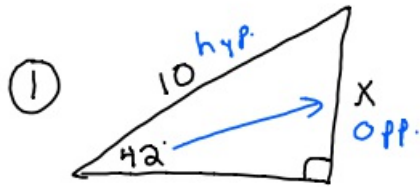


cosine, sin, tangent
cos sin tan



SOH CAH TOA

$$\sin \theta = \frac{\text{opp.}}{\text{hyp.}} \quad \cos \theta = \frac{\text{adj.}}{\text{hyp.}} \quad \tan \theta = \frac{\text{opp.}}{\text{adj.}}$$

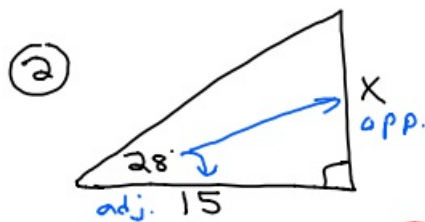


SOH CAH TOA

$$\frac{\sin 42^\circ}{1} = \frac{X}{10}$$

$$X = 10 \cdot \sin 42^\circ$$

$$X \approx 6.7$$

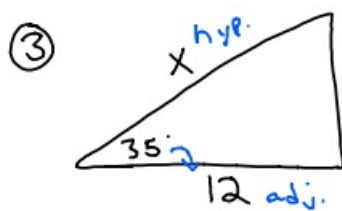


SOH CAH TOA

$$\frac{\tan 28^\circ}{1} = \frac{X}{15}$$

$$X = 15 \cdot \tan 28^\circ$$

$$X \approx 8.0$$



SOH CAH TOA

$$\frac{\cos 35^\circ}{1} = \frac{12}{X}$$

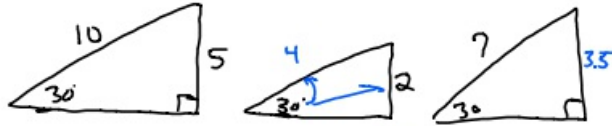
$$\frac{X \cdot \cancel{\cos 35^\circ}}{\cancel{\cos 35^\circ}} = \frac{12}{\cos 35^\circ}$$

$$X \approx 14.6$$

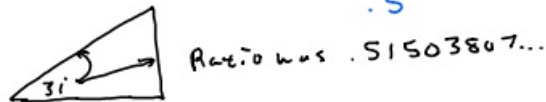
1-17-20 7th Geo

$$\frac{2}{3} = .6666666 \overline{6}$$

.6 NOT $\overline{.66}$

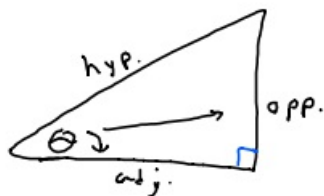
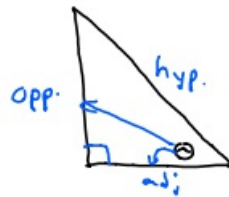
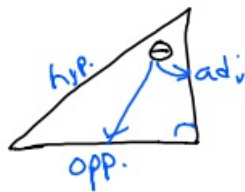
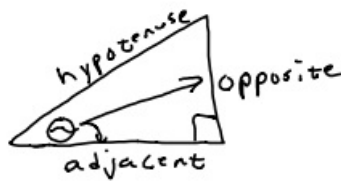


Ratio was $\frac{1}{2}$
.5



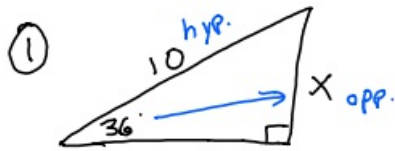
$\ominus \rightarrow$ theta

sine cosine tangent
sin cos tan



SOH CAH TOA

$$\sin \theta = \frac{\text{opp.}}{\text{hyp.}} \quad \cos \theta = \frac{\text{adj.}}{\text{hyp.}} \quad \tan \theta = \frac{\text{opp.}}{\text{adj.}}$$

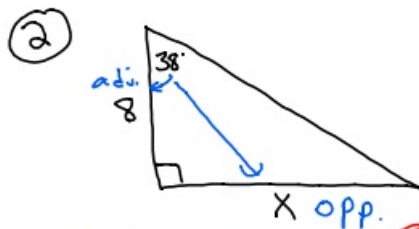


SOH CAH TOA

$$\frac{\sin 36^\circ}{1} = \frac{X}{10}$$

$$X = 10 \cdot \sin 36^\circ$$

$$X \approx 5.9$$

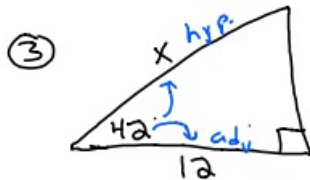


SOH CAH TOA

$$\frac{\tan 38^\circ}{1} = \frac{X}{8}$$

$$X = 8 \cdot \tan 38^\circ$$

$$X \approx 6.3$$



SOH CAH TOA

$$\frac{\cos 42^\circ}{1} = \frac{12}{X}$$

$$\frac{X \cdot \cancel{\cos 42^\circ} = 12}{\cancel{\cos 42^\circ} \cdot \cos 42^\circ}$$

$$X \approx 16.1$$