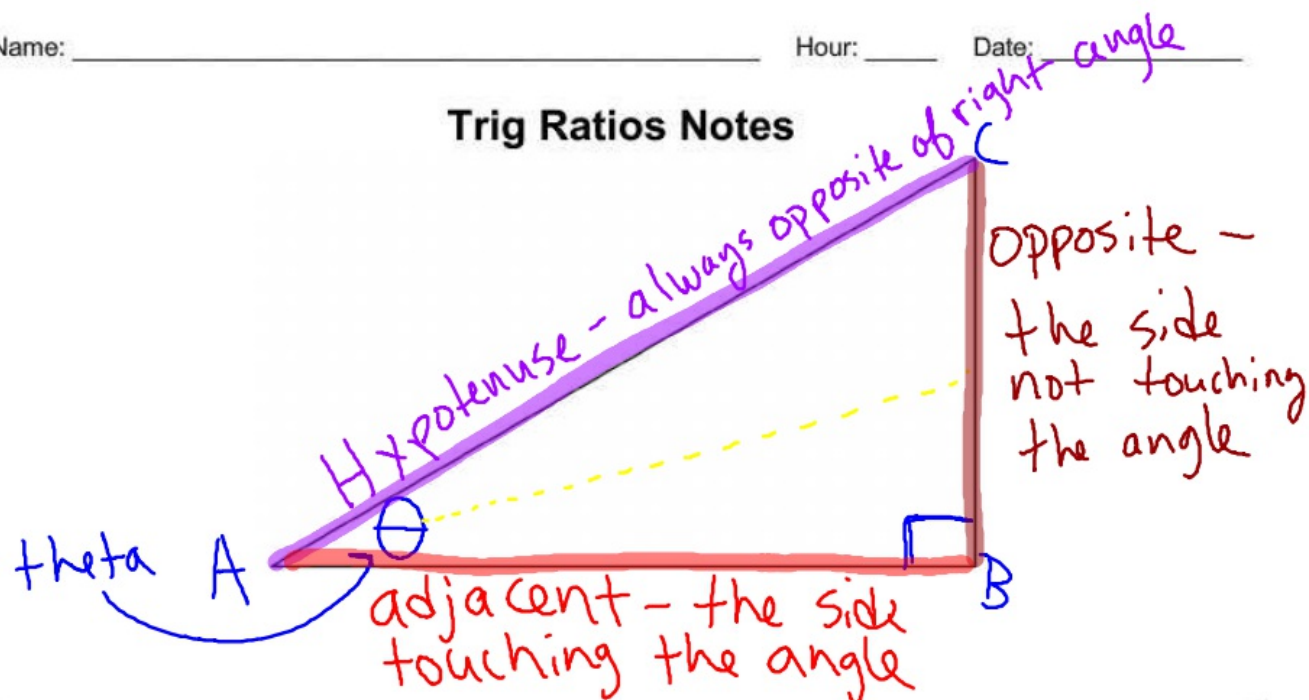


Name: _____ Hour: _____ Date: _____

Trig Ratios Notes



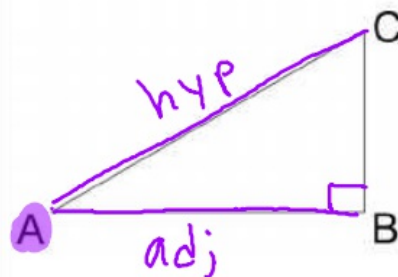
SOH

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$



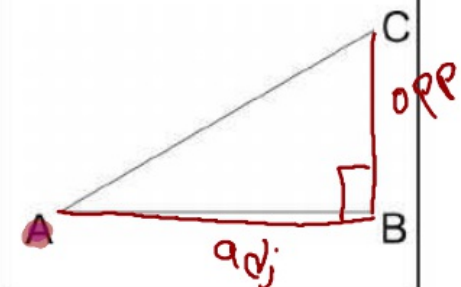
CAH

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$



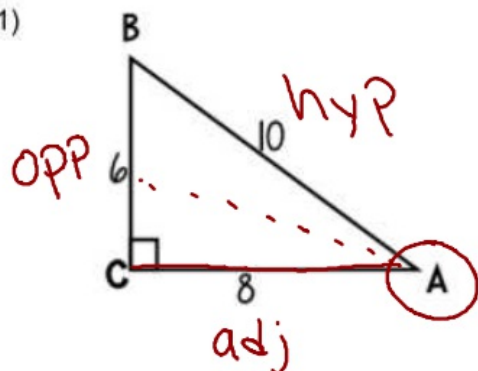
TOA

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$



Examples: Find the given trig ratios. Reduce, if necessary.

1)

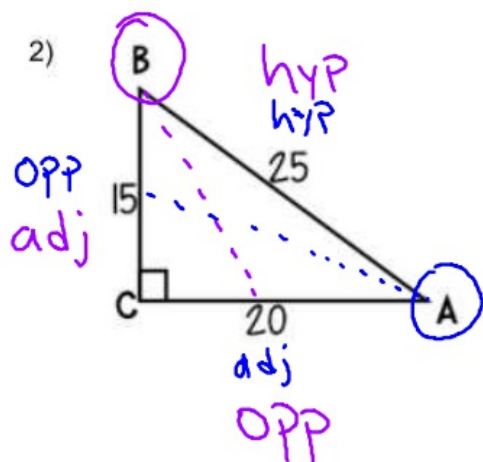


$$\sin A = \frac{\text{opp}}{\text{hyp}} = \frac{6}{10} = \frac{3}{5}$$

$$\cos A = \frac{\text{adj}}{\text{hyp}} = \frac{8}{10} = \frac{4}{5}$$

$$\tan A = \frac{\text{opp}}{\text{adj}} = \frac{6}{8} = \frac{3}{4}$$

2)



$$\sin A = \frac{15}{25} = \frac{3}{5}$$

$$\cos A = \frac{20}{25} = \frac{4}{5}$$

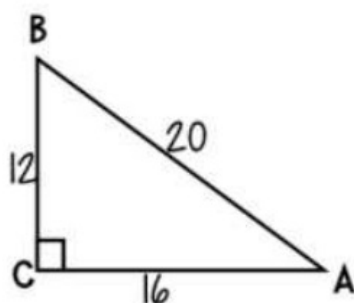
$$\tan A = \frac{15}{20} = \frac{3}{4}$$

$$\sin B = \frac{20}{25} = \frac{4}{5}$$

$$\cos B = \frac{15}{25} = \frac{3}{5}$$

$$\tan B = \frac{20}{15} = \frac{4}{3}$$

3)



$$\sin A =$$

$$\cos A =$$

$$\tan A =$$

$$\sin B =$$

$$\cos B =$$

$$\tan B =$$