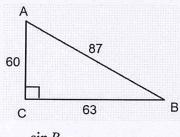
1. Write each as a ratio using this triangle:



sec B =

tan A =

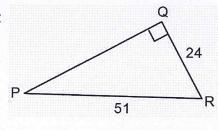
 $\sin B =$

 $\cot B =$

cscA =

 $\cos A =$

2. Write each as a ratio using this triangle:



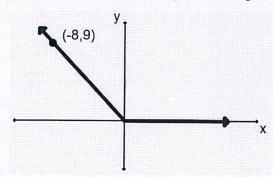
 $\csc R =$

 $\cot P =$

sec R =

3. Given right $\triangle JKL$ where L is the right angle, $\sin K = \frac{20}{29}$. Find the remaining five trig ratios of angle K. $\cos K = \tan K = \csc K = \sec K = \cot K =$

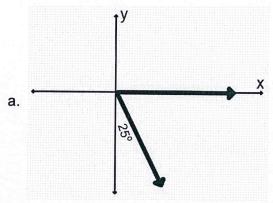
4. Find the reference angle for the given angle in Standard Position:



- 5. State the reference angle for each of the given angles which is in Standard Position.
- a) $\theta = 135^{\circ}$

b) $\theta = -170^{\circ}$

6. State both the positive and the negative measure for this angle which is in Standard Position.



b. 48°

Pos:

Pos:

Neg:

Neg:

ANSWERS

1. Write each as a ratio using this triangle:

$$\sec B = \frac{1}{\cos B} = \frac{87}{63} \qquad \tan A = \frac{9pp}{adj} = \frac{63}{60}$$

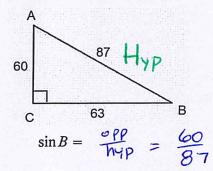
$$\tan A = \frac{opp}{adJ} = \frac{63}{60}$$

$$(OSB = \frac{ABJ}{HYP} = \frac{G3}{8.7}$$

$$\cot B = \frac{1}{\tan g} = \frac{63}{60} \qquad \csc A = \frac{1}{\sin A} = \frac{87}{63} \qquad \cos A = \frac{ADJ}{HYP} = \frac{60}{87}$$

$$Tan B = \frac{opp}{40J} = \frac{60}{63}$$

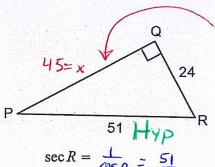
$$Sin A = \frac{app}{hyp} = \frac{63}{87}$$



$$\cos A = \frac{A \text{Di}}{\text{HYP}} = \frac{60}{87}$$

2. Write each as a ratio using this triangle:

$$\csc R = \frac{1}{\sin \varrho} = \frac{51}{45} \qquad \cot P = \frac{1}{\tan \rho} = \frac{45}{24}$$



$$\sec R = \frac{1}{\cos R} - \frac{51}{24}$$

3. Given right $\triangle JKL$ where L is the right angle, $\sin K = \frac{20}{29}$. Find the remaining five trig ratios of angle K.

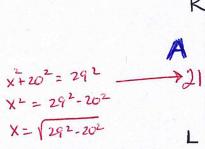
$$\cos K = \frac{21}{29}$$

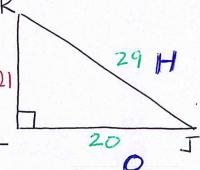
$$\tan K = \frac{20}{21}$$

$$\csc K = \frac{2q}{2o}$$

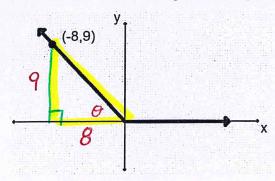
$$\sec K = \frac{27}{21}$$

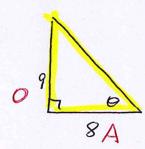
$$\cot K = \frac{21}{2}$$

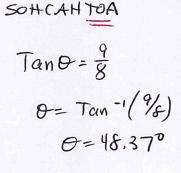




4. Find the reference angle for the given angle in Standard Position:



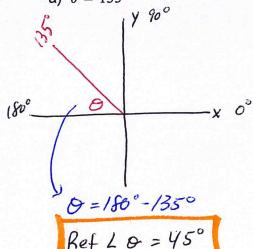


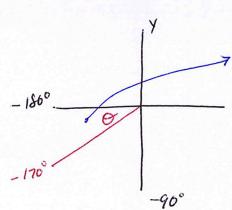


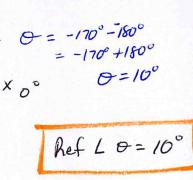
5. State the reference angle for each of the given angles which is in Standard Position.

a)
$$\theta = 135^{\circ}$$

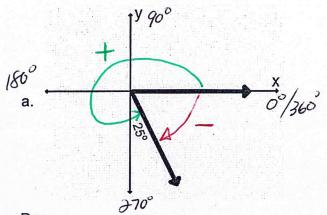
b)
$$\theta = -170^{\circ}$$

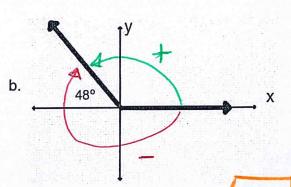






6. State both the positive and the negative measure for this angle which is in Standard Position.





Pos:

Neg: - (90-25)°

