



Mr. Calix

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Student's Name: _____

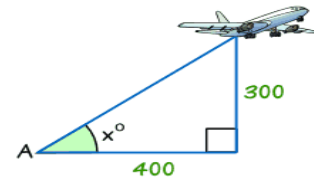
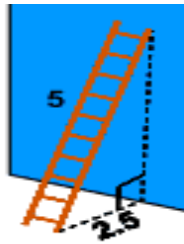
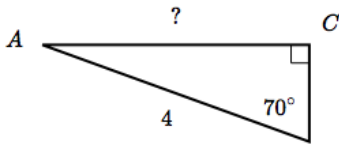
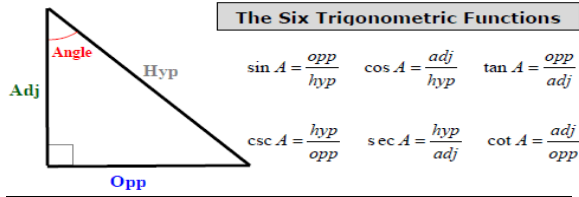
Instructions: Read carefully each statements and then prove every single proof (in your notebook), remember follow the steps and justify every single step. And then send to my e-mail

- 1) Pass to degrees (<https://www.youtube.com/watch?v=AMWLONeZmbo>)

$$\text{degrees} = \text{radians} \times \frac{180}{\pi} \quad \text{radians} = \text{degrees} \times \frac{\pi}{180}$$

$$\frac{3}{5}\pi \quad \frac{2}{4}\pi \quad \frac{6}{4}\pi \quad \frac{30}{55}\pi \quad 45^\circ \quad 134^\circ \quad 89^\circ$$

- 2) Find the missing value (<https://www.youtube.com/watch?v=2xK-fKD4Qac>)



- 3) Find the conterminal angle (<https://www.youtube.com/watch?v=6BRtPfofXog>)

Example: 45°

$$= 45^\circ + 360^\circ$$

$$= 405^\circ$$

$$\frac{13}{2}\pi \quad \frac{2}{4}\pi \quad 213^\circ \quad 56^\circ$$

- 4) Using the unit circle find the value (remember (x,y) x represent cos and y represent sine)
<https://www.youtube.com/watch?v=LE6dmczMc68>

$$\begin{aligned} \text{Example: } \tan 135^\circ &= \frac{\sin 135^\circ}{\cos 135^\circ} \\ &= \frac{-\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = \frac{-2\sqrt{2}}{2\sqrt{2}} = -1 \end{aligned}$$

$$\sin 120^\circ \quad \cos 150^\circ \quad \tan 120^\circ \quad \csc 120^\circ \quad \sec 60^\circ \quad \cot 150^\circ$$

- 5) Graph the following functions. (<https://www.youtube.com/watch?v=kiuV-DAlOpE>)

(<https://www.youtube.com/watch?v=4FF-zSGYnaM>)

$$y = 5\sin 6x \quad y = 4\cos 8x \quad y = 5\tan 4x \quad y = 6\cot 6x$$

