Names:

Work on these problems as a GROUP. You may turn in one page per group.

1) a) Find sin 660°

 b) What is a reference angle? (Give a definition- a good one)

2) Is this statement true or false? If false, **correct to make true.**

a) $\sin(\left(30°+60°\right))=\sin(\left(30°\right)\*\cos(\left(60°\right))+)\sin(\left(60°\right)\*\cos(\left(30°\right)))$

b) $tan^{2}\left(60°\right)+1=csc^{2}(30°)$

3) Does there exist an angle with the function values $cosΘ=\frac{2}{3}and sinΘ=\frac{3}{4}?$

4) Find all the values of Θ, if Θ is in the interval [0,360), where $cosΘ=-\frac{1}{2}$