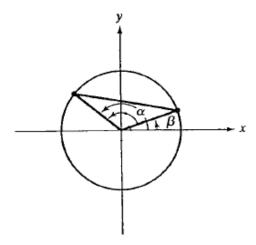
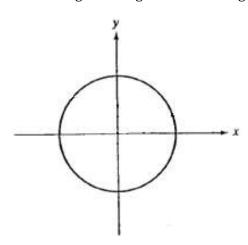
Mathematics 1613: Trigonometry Quiz #11

32: Does $\cos(\alpha - \beta) = \cos \alpha - \cos \beta$? Give an example to support your assertion.

33: Label the coordinates in the following diagram. What is the angle between α and β ?



34: Rotate the angle $\alpha - \beta$ so that it is in standard position, and label its new coordinates. Despite its new coordinates, did this rotation change the length of the line segment? Why or why not?



	Name:		
<u>35</u> : Find two different expressions for the length of the much as possible, explaining your steps.	he line segment above. S	Simplify each one as	
36 : Use the two expressions to find a trigonometric a reasoning.	ngle subtraction formul	a. Explain your	