Dawson College: Applied Mathematics for Civil Technology: 201-912-DW 01	October 22, 2010
Last Name:	
First Name:	
Student ID:	
O: 4	

Quiz 4

Question 1. (5 marks) Find the amplitude, period and displacement of the graph of

$$y = \frac{1}{2}\sin\left(\frac{1}{2}x - \frac{\pi}{4}\right)$$

make a chart of key values in x and y and graph this function.

Question 2. (4 marks) Given $\sin \alpha = 4/5$ (α in the first quadrant) and $\cos \beta = -12/13$ (β in the second quadrant) find $\sin(\alpha - \beta)$.

Question 3. (4 marks) Use the double angle formula to find $\tan 2x$ if $\sin x = 0.5$ (x in the second quadrant). (Do not use inverse trig functions.)