Math 16A (Sun Kouba Quiz 1	amer 2010)		
PRINT Name:		 	

Exam ID # : _____

1.) (10 pts.) Determine the x- and y-intercepts for $y = x^2 - 4x$. Then sketch the graph of this equation using appropriate labeling of your diagram.

2.) (10 pts.) Determine the center and radius of the circle given by : $x^2 + y^2 + 2y = 2x + 7$

3.) (10 pts.) Find an equation of the line in slope/intercept form (y=mx+b) passing through the point (2,-3) and which is parallel to the line x+2y=4.

4.) (10 pts.) Let $f(x) = \frac{2-x}{x+3}$ and $g(x) = \frac{1}{x}$. Find and simplify the functional composition f(g(x)).

5.) a.) (5 pts.) Determine the domain of $f(x) = \sqrt{7-3x}$.

b.) (5 pts.) Determine the range of $f(x) = 5 + 3\cos x$.