MAC1147 Fall 2014		
Quiz 1	Name:	
UFID:		

Solve 3 of 5 questions below in order to get your full mark. Please notice that the difficulty of each question depends on how students handle it. I only consider 3 questions for your final grade. Using calculators are forbidden and will be considered as an act of cheating. You have 15 minutes for this quiz. Good luck to all of you!

1 PROBLEM ONE

Evalute the expression.

$$\frac{|2x+1|}{2x+1} \qquad for \qquad x > -2 \tag{1}$$

2 PROBLEM TWO

Evaluate the expression for given value

$$36x^{-2} + 3x^2$$
 for $x = 3$ (2)



Rationalize the denominator of the expression. Then simplify your answer

$$\frac{2}{\sqrt{5} - \sqrt{3}}\tag{3}$$

4 PROBLEM 4

Simplify each radical expression

$$\sqrt[4]{3x^4y^2} \tag{4}$$

5 PROBLEM5

Factor the expression as completely as possible

$$x^{3n} + y^{3n}$$
 where n is any natural number (5)