1. (Multiple choice) A point P(a, b) is on the graph of a function f means that:

(a) 
$$a = f(b)$$

(c) 
$$b = f(a)$$

(b) 
$$f(b) - f(a) = 0$$

(d) AROC = 
$$(f(b) - f(a))/(b - a)$$

2. Find the inverse functions to the following functions, or explain why no such function exists. (Be sure to specify the domain of the inverse function.)

$$\alpha(x) = \frac{10 - x}{10 + x}$$

	x	"please"	"excuse"	"my"	"dear"	"aunt"	"Sally"
ĺ	q(x)	"()"	"∧"	×	÷	+	_

$$ReLU(x) = \begin{cases} x & \text{if } x \ge 0\\ 0 & \text{if } x < 0 \end{cases}$$

3. If we know j is a one-to-one function, with j(1) = 1, j(2) = 4, j(5) = 25, and j(6) = 30. List four points that must lie on the graph of  $j^{-1}$ .

You have some money, and will be depositing it into the bank for several years at an interest rate of $r$ . Put the following compounding methods in order from least-interest-gained to most-interest-gained.					
(a) Compounded monthly	(c) Compounded quarterly				
(b) Compounded continuously	(d) Compounded annually				
	rt a college fund with \$10,000 you have saved. There are several t will yield the most money in 18 years. Which option is best?				
(a) 5% annually, compounded annually	(c) 4.5% annually, compounded monthly				
(b) 4% annually, compounded continuously	(d) 4% annually, compounded quarterly				
	friends joined a tontine fifty-five years ago. This tontine carried by worth \$1.5 million. How much did each participant pay to				