Math 101-162-Quiz #2_A					
Name:	ID		Serial:		
<b>Q1:</b> For what values of <i>a</i> an	d <i>b</i> is the function				
	(ax+2b)	$x \leq 0$			
	$f(x) = \{x^2 + 3a - b\}$	$0 < x \leq 2$			
	(3x - 5)	$x \ge 2$			
Continuous at every <i>x</i> ?					

Q2: Let  $f(x) = x^2 - 4x$  be a function defined over the interval [-1, 2], use the limit to find the equation of the tangent line at P(1, -3).

Q3: Find the horizontal and the vertical asymptotes of  $f(x) = \frac{1+4e^x}{1-2e^x}$ 

Math 101-162-Quiz #2_B					
Name:	ID		Serial:		
<b>Q1:</b> For what values of <i>a</i> and	d <i>b</i> is the function				
	(2b-ax)	$x \leq 0$			
	$f(x) = \{x^2 + 3a - b = 0\}$	$0 < x \leq 2$			
	(5-3x)	$x \ge 2$			
Continuous at every <i>x</i> ?					

Q2: Let  $f(x) = 4x - x^2$  be a function defined over the interval [-1, 2], use the limit to find the equation of the tangent line at P(1, -3).

Q3: Find the horizontal and the vertical asymptotes of  $f(x) = \frac{1+4e^x}{1-2e^x}$