Please show all your worl	! Answers	without	supporting	work	will r	not be	given	credit.
Write answers in spaces p	rovided.							

Name:			
Name.			

1. [10 pts] Given the information in the table below, find and classify any critical points for the function g(x,y).

(x_0, y_0)	$g(x_0,y_0)$	$g_x(x_0, y_0)$	$g_y(x_0, y_0)$	$g_{xx}(x_0,y_0)$	$g_{yy}(x_0,y_0)$	$g_{xy}(x_0,y_0)$
(4,5)	1	-4	0	5	8	-3
(5, -10)	-10	0	0	5	-10	6
(10, 10)	0	0	0	-4	-6	-4
(7,9)	4	0	0	5	7	4
(4,8)	2	0	0	2	2	2

(4,5) is		
(5,-10) is		
(10,10) is		
(7,9) is		
(4,8) is		