Group Exam 6	Name:		
Math 142	Name of group member:		
Professor Johnson	Name of group member:		
Problem 1: Graph the polar curves and label at least 3 distinct points on the graph.			
$r = 1 - 2\cos(\theta)$			
$r = 2\sin(5\theta)$			
Signature line:			

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Problem 2: Calculate the area enclosed by the larger loop of the polar curve $r=1+2\sin(3\theta)$		
Signature line:		

Group Exam 5	Name:	
Math 142	Name of group member:	
Professor Johnson	Name of group member:	

Problem 3: Find the two points on the polar curve where the tangent line is vertical and the two points where the tangent line is horizontal.

$$r = 3\cos(\theta)$$