KFUPM	QUIZ (1a)	MATH 2	201-171
Name:	S.ID:	_Sec.()	Ser.# ()

1. Find the area of the surface obtained by rotating the following curve about the -axis.

$$x = 3t - t^3$$
, $y = 3t^2$, $0 \le t \le 1$

2. Find the points on the given curve where the tangent line is horizontal or vertical.

 $r = 1 - \sin \theta$. Show these points on the graph.