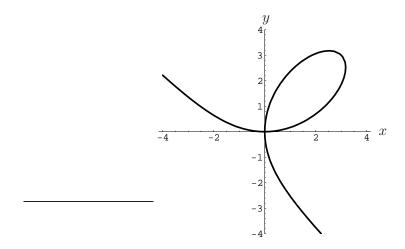
4. (12 points) An example of Descartes' folium, shown in the picture below, is given by $x^3 + y^3 = 6xy$.



- (a) Show that the point (3,3) is on the graph.
- (b) Find the equation of the tangent to the graph at the point (3, 3). Show your work.

(c) For what value(s) of x (if any) will the tangent to this curve be horizontal? [You do not need to solve for both x and y-just show x in terms of y.] Show your work.