

4. Consider the folium of Descartes whose equation is $x^3 + y^3 = 9xy$. Find y' .
Then explain the steps to find the point(s) at which the tangent line is horizontal.

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5. Compute the slope of the tangent line of the lemniscate $x^4 + 2x^2y^2 + y^4 = 16(x^2 - y^2)$ at the point $(4, 0)$.