1998 AP Calculus AB Free-Response Questions

- 6. Consider the curve defined by $2y^3 + 6x^2y 12x^2 + 6y = 1$.
 - (a) Show that $\frac{dy}{dx} = \frac{4x 2xy}{x^2 + y^2 + 1}$.
 - (b) Write an equation of each horizontal tangent line to the curve.
 - (c) The line through the origin with slope -1 is tangent to the curve at point P. Find the x-and y-coordinates of point P.

END OF EXAMINATION