

The Quotient Rule

Name _____

Find the critical points of the rational function as well as the equation of the tangent line at a given point when asked.

1) a) Find the critical points indicating a maximum or a minimum for the graph of $y = \frac{x-1}{x^2+3}$

b) Find the equation of the tangent line at $x = -1$

2) a) Find the critical points indicating a maximum or a minimum for the graph of $y = \frac{x^2 + 5}{x + 2}$

b) Find the equation of the tangent line at $x = 0$

3) Given $y = \frac{1}{x^4 + x^2 + 1}$ find y'