

QUICK REVIEW #5 – DERIVATIVES: PRODUCT/QUOTIENT RULE

Name _____

Date _____ Hour _____

1. Find the derivative of each of the following:

_____ a. $f(x) = (x^2 - 4x + 3)(x + 1)$

_____ b. $f(x) = \frac{x}{x^2+1}$

_____ c. $f(x) = (x^4 - x^2)(2x^3 + x)$

_____ d. $f(x) = \frac{x^2+3x}{x^3-x^2}$

_____ e. $f(x) = x^{\frac{1}{3}}(x^{\frac{5}{2}} + 5)$