Lesson 4.1 – Analyzing Rational Functions

1. Use the quotient rule to find the derivative of each function.
   
   (a) \( y = \frac{x^{-3}}{x+2} \)

   (b) \( y = \frac{x^2+4}{\sqrt{2x+1}} \)

   (c) \( y = \frac{3x^3-2x}{4x^2+7} \)