Product and quotient rules

- 3.4.1 Find the derivative of the function (you don't need to simplify your answer)
- (a)

$$g(x) = \frac{3x - 1}{1 + x^2}$$

(b)

$$h(s) = (s^5 - 3s^{\pi})(s^2 - 2s - 1)$$

3.4.2 Applying the product rule, find a formula for the derivative of the product of three functions. Namely, express (f(x)g(x)h(x))' using f(x), f'(x), g(x), g(x), g'(x), h(x), h'(x).