

The chain rule and the extended power rule

3.7.1

Find $\frac{dy}{dx}$ (you don't need to simplify your answer):

(a) $y = \sqrt{x^2 + \sqrt{x}},$

(b) $y = \left(\frac{2x-1}{\sqrt{1-x}} + x\right)^{30}.$

3.7.2 Find a formula for the derivative of the composition of four functions $(f(g(h(p(x)))))'$.