

Homework Topic 11

1. Use the Chain Rule to determine the derivative of each of the following functions:

a. $y = (x^2 + 1)^5$

b. $y = \sqrt{5 + 3x}$

c. $y = \frac{1}{(2x - 7)^9}$

d. $y = \frac{1}{\sqrt{2x - 7}}$

e. $y = \left[\frac{1}{\sqrt[3]{(2x - 7)^2}} + (x^2 + 1)^5 \right]^4$