



Ch 35 Techniques of differentiation (C)

Product Rule



If $y = uv$ then $y' = u'v + uv'$

Quotient Rule



If $y = \frac{u}{v}$ then $y' = \frac{vu' - uv'}{v^2}$

Chain Rule



If $y = y(x)$ and $x = x(t)$, then $y' = \frac{dy}{dx} \times \frac{dx}{dt}$