CALCULUS
Logarithmic differentiation
OLD
0400-1. Using logarithmic differentiation, differentiate \[ y = \frac{(x + 4)^3(x - 3)^2}{(2x + 5)^7(4x^3 - 2x - 1)^9}. \]

0400-2. Differentiate \[ u = x^{-x}. \]

0400-3. Differentiate \[ F(t) = (1 + t^2)^{-\cos t}. \]