

1 Derivatives of other functions

1. Find $\frac{dy}{dx}$ for each of the following

(i) $y = x \ln(x^2 + 1)$

(ii) $y = \sin(xe^x)$

2. Find $\frac{dy}{dx}$ for each of the following

(i) $y = xe^{x^2+3}$

(ii) $y = (4 + x \ln x)^5$