

MCS22 Homework 15

Find the derivative of each function.

1. $f(x) = e^{5x}$

2. $f(x) = xe^{4x}$

3. $f(x) = e^{\sqrt{x}}$

4. $f(x) = x^2e^{2x}$

5. $f(x) = \frac{2e^x}{x^2 + 3}$

6. $f(x) = (e^{4x-3})^2$

7. $f(x) = (\sin x)e^{-x}$

8. $f(x) = e^{\csc x}$