

Task 13 : Product Rule + Standard Derivatives

Differentiate

1) $y = x^3 \cos x$

2) $y = 2x^2 e^x$

3) $f(x) = x^3 \ln x$

4) $f(x) = 3x^2 \sin x$

5) $f(x) = x \tan x$

6) $e^x \cos x$

7) $e^x \ln x$

8) $(2+3x)e^x$

9) $y = x^2 \ln|x+2|$

10) $f(x) = (x^2-1) \sin x$