

Task 14 : Quotient Rule + Standard Derivatives

Differentiate

1) $y = \frac{\sin x}{x}$

2) $f(x) = \frac{\cos x}{x^2}$

3) $\frac{\ln x}{x}$

4) $y = \frac{e^x}{x^2}$

5) $f(x) = \frac{\ln |x-3|}{2x}$

6) $y = \frac{\sin x}{e^x}$

** 7)
SPECIAL
CASE
(see answers)

$$\frac{\sin x}{\cos x}$$

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