

1) Find y' if $y = \ln(2x^2 - 3)$.

2) Find y' if $y = \ln \sqrt{\frac{x-1}{x+1}}$.

3) Find y' if $y = \ln[(x^2 + 5)^5(3 - 4x)^4]$.

4) Find y' if $y = x^3 \ln(4x + 5)$.

5) If $y = \frac{\ln x}{\ln x^2}$, then find y' .

6) If $y = \ln \left(\frac{\sqrt{x^3 + 3x - 1}}{\sqrt{x^2 + 2x - 1}} \right)$, then find $\frac{dy}{dx}$.

7) Find y' if $y = e^{\ln x^2}$.

8) Find y' if $y = x^2 e^{3x}$.

9) Find y' if $y = -3e^{(4x^2 - 5x + 3)}$.

10) Find y' if $y = \frac{xe^x}{x+1}$.