

Solve:

1) What is the derivative of $v(x) = \log_4 (\cos x)$? 2) Given $p(x) = \log_8 x$.

What is $\frac{dp}{dx}$?

3) What is $\frac{d}{dx} \log_3 x$?

4) Given $d(x) = \log_9 x$.

What is $\frac{dd}{dx}$?

5) What is the derivative of $w(x) = e^{x^2 + x - 1}$?

6) Given $n(x) = 7^{x-2}$. What is $n'(x)$?

7) Given $w(x) = 4^{\sin x}$.
What is $\frac{dw}{dx}$?

8) Given $n(x) = e^{3x^2 + 5x + 4}$.
What is $\frac{dn}{dx}$?