

MCS21 Homework 24

Find $\frac{dy}{dx}$.

1. $y = \cos^3 x$

2. $y = \tan(4x^2)$

3. $y = \tan^4(x^3)$

4. $y = \sin(\tan 3x)$

5. $y = [1 + \sin^3(x^5)]^{12}$

6. $y = \frac{\sin x}{\sin(3x+1)}$

7. $y = \sec^4 2x$

8. $y = \sqrt{\csc x}$

9. $y = x^3 \sec(9 - x^2)$