

## MCS21 Homework 29

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