

Trigonometry Differentiation Worksheet

Section I:
Find dy/dx

1) $y = \sin(2x)$

2) $y = \cos x^4$

3) $y = \cos^2 x$

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

5) $y = \sec(3x)$

Section II:
Find y'

1) $y = x^2 \sin^2 x$

2) $y = 5\csc(3x)$

3) $y = \frac{3\sin x}{(2x + 5)}$

4) $y = \sin^2(4x) + \cos^2(4x)$

5) $y = 4\sin x \cos x$

Section III:
Find dy/dx

1) $\sin(xy) + 3x = 4$

2) $\sin y + \cos x = 1$