

27.1 and 27.2 Trig Derivatives

Differentiate the following:

1. $y = \sin x \cos x$

2. $y = 3 \cos 4x$

3. $y = \sin^4 x$

4. $y = \sin x^4$

5. $y = \sin^4 x^4$

6. $y = 3 \sin^3 (2x^4 + 1)$

7. $y = (x - \cos^2 x)^4$

8. $y = \cos^3 4x \sin^2 2x$

9. $y = 3 \tan(3x + 2)$

10. $y = 3 \cot 6x$

11. $y = \csc \sqrt{1 - x}$

12. $y = \frac{1}{2} \sin 2x \sec x$