

Find the Derivative:

1.  $f(x) = \sqrt{x} \sin x$

2.  $f(x) = \frac{\cos x}{x^3}$

3.  $f(x) = \frac{\sin x}{x}$

4.  $f(x) = x^2 \sin x$

5.  $f(x) = -x + \tan x$

6.  $g(t) = \sqrt[4]{t} + 6 \csc t$

7.  $y = -\csc x - \sin x$

8.  $f(x) = x^2 \tan x$

9.  $y = 2x \sin x + x^2 \cos x$

10.  $f(\theta) = (\theta + 1) \cos \theta$

11.  $f(x) = \frac{\sec x}{x}$

12.  $f(x) = \sin x \cos x$

13.  $f(x) = \frac{\sin x - 3x}{x}$

14.  $f(\theta) = \frac{\sin \theta}{1 - \cos \theta}$

15.  $f(\theta) = \frac{\theta}{1 - \sin \theta}$

16.  $y = \frac{3(1 - \sin x)}{2 \cos x}$