

Name _____

Differentiate the following functions.

1. $f(t) = \cos(5t)$

2. $y = 5 \cos x$

3. $y = (1 - x^3)^{11}$

4. $y = \sqrt{\cos(2x)}$

5. $y = \cos \sqrt{2x}$

6. $y = (3t + 1)^4 (1 - 2t)^{-3}$

7. $F(j) = \sqrt{\frac{j-2}{3+j}}$

8. $y = \tan^3(\cos x)$

9. $F(\omega) = \csc^2(\cos \omega)$

10. $F(x) = \cos(\cos(\cos(\cos(\cos(x^3 - 3x))))))$