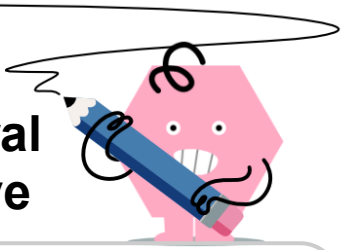
Name



Derivative Rules - Multi Quotient Natural Exponential Trigonometric to Derivative

1

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{5e^x}{5\sin(x)}$

A $f'(x) = \dfrac{(5e^x)(5\sin(x)) - (5e^x)(5\cos(x))}{5\sin(x)}$

B $f'(x) = \dfrac{(5e^x)(5\cos(x)) - (5e^x)(5\sin(x))}{(5\sin(x))^2}$

C $f'(x) = \dfrac{(5e^x)(5\sin(x)) + (5e^x)(5\cos(x))}{(5\sin(x))^2}$

D $f'(x) = \dfrac{(5e^x)(5\sin(x)) - (5e^x)(5\cos(x))}{(5\sin(x))^2}$

2

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{e^x}{5\sin(x)}$

A $f'(x) = \dfrac{(e^x)(5\sin(x)) - (e^x)(5\cos(x))}{5\sin(x)}$

B $f'(x) = \dfrac{(e^x)(5\sin(x)) - (e^x)(5\cos(x))}{(5\sin(x))^2}$

C $f'(x) = \dfrac{(e^x)(5\cos(x)) - (e^x)(5\sin(x))}{(5\sin(x))^2}$

D $f'(x) = \dfrac{(e^x)(5\sin(x)) + (e^x)(5\cos(x))}{(5\sin(x))^2}$

3

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{2e^x}{2\sin(x)}$

A $f'(x) = \dfrac{(2e^x)(2\sin(x)) + (2e^x)(2\cos(x))}{(2\sin(x))^2}$

B $f'(x) = \dfrac{(2e^x)(2\sin(x)) - (2e^x)(2\cos(x))}{2\sin(x)}$

C $f'(x) = \dfrac{(2e^x)(2\cos(x)) - (2e^x)(2\sin(x))}{(2\sin(x))^2}$

D $f'(x) = \dfrac{(2e^x)(2\sin(x)) - (2e^x)(2\cos(x))}{(2\sin(x))^2}$

4

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{e^x}{2\sin(x)}$

A $f'(x) = \dfrac{(e^x)(2\cos(x)) - (e^x)(2\sin(x))}{(2\sin(x))^2}$

B $f'(x) = \dfrac{(e^x)(2\sin(x)) + (e^x)(2\cos(x))}{(2\sin(x))^2}$

C $f'(x) = \dfrac{(e^x)(2\sin(x)) - (e^x)(2\cos(x))}{(2\sin(x))^2}$

D $f'(x) = \dfrac{(e^x)(2\sin(x)) - (e^x)(2\cos(x))}{2\sin(x)}$

5

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{4e^x}{\cos(x)}$

A $f'(x) = \dfrac{(4e^x)(-\sin(x)) - (4e^x)(\cos(x))}{(\cos(x))^2}$

B $f'(x) = \dfrac{(4e^x)(\cos(x)) + (4e^x)(-\sin(x))}{(\cos(x))^2}$

C $f'(x) = \dfrac{(4e^x)(\cos(x)) - (4e^x)(-\sin(x))}{\cos(x)}$

D $f'(x) = \dfrac{(4e^x)(\cos(x)) - (4e^x)(-\sin(x))}{(\cos(x))^2}$

6

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{5e^x}{2\sin(x)}$

A $f'(x) = \dfrac{(5e^x)(2\sin(x)) + (5e^x)(2\cos(x))}{(2\sin(x))^2}$

B $f'(x) = \dfrac{(5e^x)(2\cos(x)) - (5e^x)(2\sin(x))}{(2\sin(x))^2}$

C $f'(x) = \dfrac{(5e^x)(2\sin(x)) - (5e^x)(2\cos(x))}{(2\sin(x))^2}$

D $f'(x) = \dfrac{(5e^x)(2\sin(x)) - (5e^x)(2\cos(x))}{2\sin(x)}$

7

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{5e^x}{4\sin(x)}$

A $f'(x) = \dfrac{(5e^x)(4\sin(x)) - (5e^x)(4\cos(x))}{(4\sin(x))^2}$

B $f'(x) = \dfrac{(5e^x)(4\cos(x)) - (5e^x)(4\sin(x))}{(4\sin(x))^2}$

C $f'(x) = \dfrac{(5e^x)(4\sin(x)) - (5e^x)(4\cos(x))}{4\sin(x)}$

D $f'(x) = \dfrac{(5e^x)(4\sin(x)) + (5e^x)(4\cos(x))}{(4\sin(x))^2}$

8

Find the derivative f'(x) using the quotient, natural exponential, and trigonometric rules. $f(x) = \dfrac{4e^x}{2\cos(x)}$

A $f'(x) = \dfrac{(4e^x)(2\cos(x)) + (4e^x)(-2\sin(x))}{(2\cos(x))^2}$

B $f'(x) = \dfrac{(4e^x)(2\cos(x)) - (4e^x)(-2\sin(x))}{2\cos(x)}$

C $f'(x) = \dfrac{(4e^x)(-2\sin(x)) - (4e^x)(2\cos(x))}{(2\cos(x))^2}$

D $f'(x) = \dfrac{(4e^x)(2\cos(x)) - (4e^x)(-2\sin(x))}{(2\cos(x))^2}$