Find f'(x) for f(x) = $3e^{5x}$.

Find f'(x) for f(x) = -sin(4x).

Find f'(x) for f(x) = -2tan(2x).

f(x) = 4sin(4x) - e^{-x}. Find f'(0).

f(x) = -3cos(x). Find f'(π/2).

Find f'(x) for f(x) = $-e^{4x}$.

Find f'(x) for f(x) = $-2e^{-2x}$.

f(x) = -5sin(2x) - $2e^{-2x}$. Find f'(0).

Derivatives of Trig, Exponential & Log Functions · 2

ANSWER

$-4\cos(4x)$

Derivatives of Trig, Exponential & Log Functions · 1

ANSWER

$15e^{5x}$

Derivatives of Trig, Exponential & Log Functions · 4

ANSWER

17

Derivatives of Trig, Exponential & Log Functions · 3

ANSWER

$-4\sec^2(2x)$

Derivatives of Trig, Exponential & Log Functions · 6

ANSWER

$-4e^{4x}$

Derivatives of Trig, Exponential & Log Functions · 5

ANSWER

3

Derivatives of Trig, Exponential & Log Functions · 8

ANSWER

-6

Derivatives of Trig, Exponential & Log Functions · 7

ANSWER

$4e^{-2x}$

Find f'(x) for f(x) = 3cos(5x).

Find f'(x) for f(x) = 3tan(2x).

f(x) = -6sin(x). Find f'(π).

f(x) = 5tan(x). Find f'(π/6).

f(x) = 8ln(x) + 2x². Find f'(5).

$f(x) = 2\sin(2x) - 4e^{-x} - \cos(4x)$. Find f'(0).

Find f'(x) for f(x) = 4tan(3x).

$f(x) = -2\sin(4x) + 4e^{-3x} - \cos(2x)$. Find f'(0).

Derivatives of Trig, Exponential & Log Functions · 10

ANSWER

$$6\sec^2(2x)$$

Derivatives of Trig, Exponential & Log Functions · 9

ANSWER

$$-15\sin(5x)$$

Derivatives of Trig, Exponential & Log Functions · 12

ANSWER

$$\frac{20}{3}$$

Derivatives of Trig, Exponential & Log Functions · 11

ANSWER

$$6$$

Derivatives of Trig, Exponential & Log Functions · 14

ANSWER

$$8$$

Derivatives of Trig, Exponential & Log Functions · 13

ANSWER

$$\frac{108}{5}$$

Derivatives of Trig, Exponential & Log Functions · 16

ANSWER

$$-20$$

Derivatives of Trig, Exponential & Log Functions · 15

ANSWER

$$12\sec^2(3x)$$

Find f'(x) for f(x) = 4sin(4x).

Find f'(x) for f(x) = -5tan(3x).

f(x) = -3sin(4x). Find f'(π).

f(x) = -2tan(x). Find f'(π/3).

f(x) = -2ln(3x) - 4x. Find f'(2).

$f(x) = 2\sin(4x) - e^{-3x} - 4\cos(x)$. Find f'(0).

Find f'(x) for f(x) = 3ln(5x).

f(x) = -sin(4x). Find f'(π).

Derivatives of Trig, Exponential & Log Functions · 18

ANSWER

$$-15\sec^2(3x)$$

Derivatives of Trig, Exponential & Log Functions · 17

ANSWER

$$16\cos(4x)$$

Derivatives of Trig, Exponential & Log Functions · 20

ANSWER

$$-8$$

Derivatives of Trig, Exponential & Log Functions · 19

ANSWER

$$-12$$

Derivatives of Trig, Exponential & Log Functions · 22

ANSWER

$$11$$

Derivatives of Trig, Exponential & Log Functions · 21

ANSWER

$$-5$$

Derivatives of Trig, Exponential & Log Functions · 24

ANSWER

$$-4$$

Derivatives of Trig, Exponential & Log Functions · 23

ANSWER

$$\frac{3}{x}$$