Task card 1 Derivatives of Trig, Exponential &...

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

Task card 2 Derivatives of Trig, Exponential &...

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

Task card 3 Derivatives of Trig, Exponential &...

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

Task card 4 Derivatives of Trig, Exponential &...

f(x) = $4\sin(4x) - e^{-x}$.

Find f'(0).

Task card 5 Derivatives of Trig, Exponential &...

f(x) = -3cos(x).

Find f'(π/2).

Task card 6 Derivatives of Trig, Exponential &...

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

Task card 7 Derivatives of Trig, Exponential &...

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

Task card 8 Derivatives of Trig, Exponential &...

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

Task card 9 Derivatives of Trig, Exponential &...

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

Task card 10 Derivatives of Trig, Exponential &...

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

Task card 11 Derivatives of Trig, Exponential &...

f(x) = $-6\sin(x)$.

Find f'(π).

Task card 12 Derivatives of Trig, Exponential &...

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

Find f'(π/6).

Task card 13 Derivatives of Trig, Exponential &...

$f(x) = 8\ln(x) + 2x^2$. Find $f'(5)$.

Task card 14 Derivatives of Trig, Exponential &...

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

Task card 15 Derivatives of Trig, Exponential &...

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

Task card 16 Derivatives of Trig, Exponential &...

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

Task card 17 Derivatives of Trig, Exponential &...

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

Task card 18 Derivatives of Trig, Exponential &...

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

Task card 19 Derivatives of Trig, Exponential &...

$f(x) = -3\sin(4x)$. Find $f'(\pi)$.

Task card 20 Derivatives of Trig, Exponential &...

$f(x) = -2\tan(x)$. Find $f'(\pi/3)$.

Task card 21 Derivatives of Trig, Exponential &...

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

Task card 22 Derivatives of Trig, Exponential &...

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

Task card 23 Derivatives of Trig, Exponential &...

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

Task card 24 Derivatives of Trig, Exponential &...

$f(x) = -\sin(4x)$. Find $f'(\pi)$.

Derivatives of Trig, Exponential & Log Functions Task Cards

Recording sheet · Grade 12 · Find f'(x) written like 6cos(2x), -12sin(3x), 5sec^2(x), 6e^(2x) or 4/x (the number in front, brackets around the inside), or find the exact value asked for. Give fractions in simplest form and write powers of e like 3e^2.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Derivatives of Trig, Exponential & Log Functions Task Cards: Answer Key

Grade 12 · Medium

The answers online

1. $15e^{5x}$	**2.** $-4\cos(4x)$	**3.** $-4\sec^2(2x)$
4. 17	**5.** 3	**6.** $-4e^{4x}$
7. $4e^{-2x}$	**8.** -6	**9.** $-15\sin(5x)$
10. $6\sec^2(2x)$	**11.** 6	**12.** $\frac{20}{3}$
13. $\frac{108}{5}$	**14.** 8	**15.** $12\sec^2(3x)$
16. -20	**17.** $16\cos(4x)$	**18.** $-15\sec^2(3x)$
19. -12	**20.** -8	**21.** -5
22. 11	**23.** $\frac{3}{x}$	**24.** -4