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

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

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

Find f'(x) for f(x) = 8cos(x).

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

Find f'(x) for f(x) = 7ln(x).

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

Find f'(x) for f(x) = 9cos(x).

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

$f(x) = -3\sin(x) - e^x$. Find f'(0).

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

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

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

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

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

Find $f'(x)$ for $f(x) = e^x$.

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

Find $f'(x)$ for $f(x) = 8\ln(x)$.

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

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

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

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

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

$f(x) = 2\sin(x) + 2e^x$. Find $f'(0)$.

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

Find f'(x) for f(x) = 6cos(2x).

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

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

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

Find f'(x) for f(x) = 9ln(x).

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

Find f'(x) for f(x) = $6e^{4x}$.

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

Find f'(x) for f(x) = -cos(6x).

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

Find f'(x) for f(x) = 6sin(6x).

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

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

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

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

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

f(x) = -6cos(3x). Find f'(π/2).

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

Find f'(x) for f(x) = 2cos(6x).

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

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

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

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

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 · Easy

The answers online

1. $\frac{4}{x}$	**2.** $-8\sin(x)$	**3.** $\frac{7}{x}$
4. $-9\sin(x)$	**5.** -4	**6.** $5e^{x}$
7. -7	**8.** e^{x}	**9.** $\frac{8}{x}$
10. $-3e^{-3x}$	**11.** $-e^{x}$	**12.** 4
13. $-12\sin(2x)$	**14.** -8	**15.** $\frac{9}{x}$
16. $24e^{4x}$	**17.** $6\sin(6x)$	**18.** $36\cos(6x)$
19. $-4\sec^{2}(x)$	**20.** -4	**21.** -18
22. $-12\sin(6x)$	**23.** $16\sin(4x)$	**24.** 10