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

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

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

f(x) = -tan(x) + x. Find f'(π/6).

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

f(x) = -2ln(5x) + 3x. Find f'(4).

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

$f(x) = -2e^{3x}$. Find f'(ln(2)).

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

$f(x) = x^2\ln(x)$. Find f'(e).

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

$f(x) = -3\sin(3x) - 3e^{2x} + 5\cos(4x)$. Find f'(0).

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

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

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

$f(x) = -3e^{3x}$. Find $f'(\ln(2))$.

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

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

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

$f(x) = 4\tan(x) + 4x$. Find $f'(\pi/3)$.

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

$f(x) = 7\ln(2x) - 3x$. Find $f'(4)$.

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

$f(x) = e^x$. Find $f'(\ln(3))$.

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

$f(x) = x\ln(x)$. Find $f'(e)$.

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

$f(x) = 4\sin(3x) + 2e^x + 5\cos(2x)$. Find $f'(0)$.

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

$f(x) = -\tan(x) + 3x$. Find $f'(\pi/6)$.

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

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

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

$f(x) = 6\tan(x) + 3x$. Find $f'(\pi/6)$.

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

$f(x) = -7\ln(x) - 4x^2$. Find $f'(1)$.

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

$f(x) = 3e^{3x}$. Find $f'(\ln(2))$.

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

$f(x) = xe^{2x}$. Find $f'(1)$.

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

$f(x) = 2\sin(2x) - 5e^{2x} - 3\cos(3x)$. Find $f'(0)$.

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

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

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

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

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

Find $f'(x)$ for $f(x) = 6\ln(3x)$.

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 · Hard

The answers online

1. $\frac{4}{-x}$	**2.** $\frac{1}{-3}$	**3.** $\frac{5}{2}$
4. -48	**5.** 3e	**6.** -15
7. 6	**8.** -72	**9.** $\frac{2}{x}$
10. 20	**11.** $\frac{5}{-4}$	**12.** 3
13. 2	**14.** 14	**15.** $\frac{5}{3}$
16. $\frac{3}{x}$	**17.** 11	**18.** -15
19. 72	**20.** $3e^{2}$	**21.** -6
22. -3	**23.** -8	**24.** $\frac{6}{x}$