Task card 1 Product, Quotient & Chain Rules

$f(x) = (-x^2 + 4x - 6)(3x - 1)$. Use the product rule to find $f'(-2)$.

Task card 2 Product, Quotient & Chain Rules

$f(x) = (2x - 6)^3$. Use the chain rule to find $f'(1)$.

Task card 3 Product, Quotient & Chain Rules

$f(x) = (-2x^2 - x + 3)(x + 4)$. Use the product rule to find $f'(-2)$.

Task card 4 Product, Quotient & Chain Rules

$f(x) = (2x + 5)^3$. Use the chain rule to find $f'(2)$.

Task card 5 Product, Quotient & Chain Rules

$f(x) = (x + 1)^3$. Use the chain rule to find $f'(0)$.

Task card 6 Product, Quotient & Chain Rules

$f(x) = (-2x^2 + 2x - 6)(2x - 6)$. Use the product rule to find $f'(3)$.

Task card 7 Product, Quotient & Chain Rules

$f(x) = (x - 5)^2$. Use the chain rule to find $f'(2)$.

Task card 8 Product, Quotient & Chain Rules

$f(x) = (-x^2 + 4x - 3)(-x + 5)$. Use the product rule to find $f'(1)$.

Task card 9 Product, Quotient & Chain Rules

$f(x) = (2x^2 - 3x - 5)(3x)$. Use the product rule to find $f'(1)$.

Task card 10 Product, Quotient & Chain Rules

$f(x) = (2x + 5)^3$. Use the chain rule to find $f'(-1)$.

Task card 11 Product, Quotient & Chain Rules

$f(x) = (2x^2 - x - 1)(x - 1)$. Use the product rule to find $f'(3)$.

Task card 12 Product, Quotient & Chain Rules

$f(x) = (-x - 5)^2$. Use the chain rule to find $f'(1)$.

Task card 13 Product, Quotient & Chain Rules

$f(x) = (x^2 + 3x - 5)(-2x - 5)$. Use the product rule to find $f'(-3)$.

Task card 14 Product, Quotient & Chain Rules

$f(x) = (x - 2)^4$. Use the chain rule to find $f'(0)$.

Task card 15 Product, Quotient & Chain Rules

$f(x) = (-2x)^4$. Use the chain rule to find $f'(2)$.

Task card 16 Product, Quotient & Chain Rules

$f(x) = (x^2 + 4x - 4)(3x - 1)$. Use the product rule to find $f'(2)$.

Task card 17 Product, Quotient & Chain Rules

$f(x) = (-x^2 - x - 6)(-2x + 6)$. Use the product rule to find $f'(1)$.

Task card 18 Product, Quotient & Chain Rules

$f(x) = \dfrac{3x^2 + 4x + 2}{x + 1}$. Use the quotient rule to find $f'(0)$.

Task card 19 Product, Quotient & Chain Rules

$f(x) = (2x - 6)^5$. Use the chain rule to find $f'(1)$.

Task card 20 Product, Quotient & Chain Rules

$f(x) = \sqrt{(x^2 - 2x + 1)}$. Use the chain rule to find $f'(-2)$.

Task card 21 Product, Quotient & Chain Rules

$f(x) = (3x + 1)^4$. Use the chain rule to find $f'(0)$.

Task card 22 Product, Quotient & Chain Rules

$f(x) = (2x + 4)^4$. Use the chain rule to find $f'(0)$.

Task card 23 Product, Quotient & Chain Rules

$f(x) = \sqrt{(x^2 - x - 5)}$. Use the chain rule to find $f'(3)$.

Task card 24 Product, Quotient & Chain Rules

$f(x) = (x^2 - x + 1)(-x - 4)$. Use the product rule to find $f'(-1)$.

Product, Quotient & Chain Rules Task Cards

Recording sheet · Grade 12 · Find the value of the derivative at the given point. Give fractions in simplest form.

Name: _____ Date: _____

Scan to check your answers

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

Product, Quotient & Chain Rules Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. -110	**2.** 96	**3.** 11
4. 486	**5.** 3	**6.** -36
7. -6	**8.** 8	**9.** -15
10. 54	**11.** 36	**12.** 12
13. 7	**14.** -32	**15.** 512
16. 64	**17.** 4	**18.** 2
19. 2560	**20.** -1	**21.** 12
22. 512	**23.** $\frac{5}{2}$	**24.** 6