Task card 1 Average Rate of Change

Find the average rate of change of $f(x) = x^3 + x^2 + 4x + 6$ on the interval $[-3, 0]$.

Task card 2 Average Rate of Change

Find the average rate of change of $f(x) = 2x^3 - 3x^2 - 2x + 2$ on the interval $[-1, 0]$.

Task card 3 Average Rate of Change

Find the average rate of change of $f(x) = x^2 - 4x - 7$ on the interval $[0, 5]$.

Task card 4 Average Rate of Change

Find the average rate of change of $f(x) = -3x^2 + 6x - 5$ on the interval $[-3, 1]$.

Task card 5 Average Rate of Change

Find the average rate of change of $f(x) = 2x^3 - x^2 - 6x + 5$ on the interval $[0, 4]$.

Task card 6 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 - 2x^2 + 3x + 6$ on the interval $[1, 2]$.

Task card 7 Average Rate of Change

Find the average rate of change of $f(x) = -2x^2 + 3x + 7$ on the interval [1, 3].

Task card 8 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 - x^2 - 3x - 7$ on the interval [-4, -1].

Task card 9 Average Rate of Change

Find the average rate of change of $f(x) = x^3 + 2x^2 - 6x + 2$ on the interval [1, 3].

Task card 10 Average Rate of Change

Find the average rate of change of $f(x) = 3x^2 - 4x - 3$ on the interval [2, 4].

Task card 11 Average Rate of Change

Find the average rate of change of $f(x) = -3x^2 - 2x + 2$ on the interval [3, 6].

Task card 12 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 + 2x^2 - x - 1$ on the interval [3, 4].

Task card 13 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 + x^2 + 6x + 8$ on the interval $[0, 4]$.

Task card 14 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 + 2x^2 - 2$ on the interval $[3, 5]$.

Task card 15 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 + x^2 + 2x + 2$ on the interval $[0, 4]$.

Task card 16 Average Rate of Change

Find the average rate of change of $f(x) = -2x^2 - 5x + 6$ on the interval $[2, 4]$.

Task card 17 Average Rate of Change

Find the average rate of change of $f(x) = -x^2 - 2x - 2$ on the interval $[3, 6]$.

Task card 18 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 - 2x^2 - 5x + 6$ on the interval $[0, 3]$.

Task card 19 Average Rate of Change

Find the average rate of change of $f(x) = -x^2 - 6x - 4$ on the interval $[-1, 2]$.

Task card 20 Average Rate of Change

Find the average rate of change of $f(x) = x^2 - 2x - 8$ on the interval $[2, 3]$.

Task card 21 Average Rate of Change

Find the average rate of change of $f(x) = -x^2 + x + 1$ on the interval $[-2, 2]$.

Task card 22 Average Rate of Change

Find the average rate of change of $f(x) = -x^3 + x^2 + 6x - 9$ on the interval $[-1, 1]$.

Task card 23 Average Rate of Change

Find the average rate of change of $f(x) = x^2 - 5x - 3$ on the interval $[0, 3]$.

Task card 24 Average Rate of Change

Find the average rate of change of $f(x) = -3x^2 + 3x - 1$ on the interval $[-3, 2]$.

Average Rate of Change Task Cards

Recording sheet · Grade 12 · Find each average rate of change. 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

Average Rate of Change Task Cards: Answer Key

Grade 12 · Hard

The answers online

1. 10	**2.** 3	**3.** 1
4. 12	**5.** 22	**6.** -10
7. -5	**8.** -19	**9.** 15
10. 14	**11.** -29	**12.** -24
13. -6	**14.** -33	**15.** -10
16. -17	**17.** -11	**18.** -20
19. -7	**20.** 3	**21.** 1
22. 5	**23.** -2	**24.** 6