Task card 1 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 + 2x^2 - 3x - 3$ is divided by $(x + 1)$.

-1	-1	2	-3	-3

Task card 2 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 + x^2 - 3x + 2$ is divided by $(x - 2)$.

Task card 3 Remainder & Factor Theorems

Is $(x + 3)$ a factor of $f(x) = 2x^3 - 3x^2 + 3x + 90$? Write yes or no.

Task card 4 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 - 3x^2 - x + 1$ is divided by $(x - 2)$.

2	1	-3	-1	1

Task card 5 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 + 2x^2 + x - 2$ is divided by $(x + 2)$.

Task card 6 Remainder & Factor Theorems

Is $(x + 2)$ a factor of $f(x) = x^3 + x^2 + 2x + 8$? Write yes or no.

Task card 7 Remainder & Factor Theorems

Find the remainder when $f(x) = 3x^3 - 3x + 3$ is divided by $(x + 1)$.

Task card 8 Remainder & Factor Theorems

Is $(x - 2)$ a factor of $f(x) = x^3 - 2x^2 - 3x + 6$? Write yes or no.

Task card 9 Remainder & Factor Theorems

Find the remainder when $f(x) = 2x^3 + 3x^2 - x + 3$ is divided by $(x - 2)$.

2	2	3	-1	3

Task card 10 Remainder & Factor Theorems

Find the remainder when $f(x) = 2x^3 + 3x^2 + 3x + 2$ is divided by $(x - 3)$.

Task card 11 Remainder & Factor Theorems

Is $(x + 2)$ a factor of $f(x) = x^3 + x^2 - 1$? Write yes or no.

Task card 12 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 + 3x^2 - x - 3$ is divided by $(x + 1)$.

-1	-1	3	-1	-3

Task card 13 Remainder & Factor Theorems

Find the remainder when $f(x) = 2x^3 - x^2 + 2x + 7$ is divided by $(x + 3)$.

Task card 14 Remainder & Factor Theorems

Is $(x - 2)$ a factor of $f(x) = x^3 + x^2 - 2x - 8$? Write yes or no.

Task card 15 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 + 2x^2 + x - 1$ is divided by $(x - 2)$.

Task card 16 Remainder & Factor Theorems

Is $(x - 3)$ a factor of $f(x) = -x^3 + x^2 - 2x + 24$? Write yes or no.

Task card 17 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 + 3x^2 - 2x + 3$ is divided by $(x - 2)$.

2	1	3	-2	3

Task card 18 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 - 2x^2 + x + 2$ is divided by $(x + 2)$.

Task card 19 Remainder & Factor Theorems

Is $(x + 1)$ a factor of $f(x) = -x^3 - 2x^2 - 3x + 3$? Write yes or no.

Task card 20 Remainder & Factor Theorems

Find k so that $(x - 3)$ is a factor of $f(x) = x^3 - 4x^2 - 3x + k$.

Task card 21 Remainder & Factor Theorems

$(x + 2)$ is a factor of $f(x) = x^3 - 4x^2 - 12x$. Find the other two zeros.

Task card 22 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 - 3x^2 - 3x + 1$ is divided by $(x + 3)$.

Task card 23 Remainder & Factor Theorems

Is $(x + 2)$ a factor of $f(x) = x^3 + 4x^2 + 3x - 1$? Write yes or no.

Task card 24 Remainder & Factor Theorems

Find k so that $(x - 3)$ is a factor of $f(x) = 2x^3 - 4x^2 - 2x + k$.

Remainder & Factor Theorems Task Cards

Recording sheet · Grade 11 · Use synthetic division or the Remainder and Factor Theorems.

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

Remainder & Factor Theorems Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. 3	**2.** -8	**3.** yes
4. -5	**5.** 12	**6.** yes
7. 3	**8.** yes	**9.** 29
10. 92	**11.** no	**12.** 2
13. -62	**14.** yes	**15.** 1
16. yes	**17.** 19	**18.** -16
19. no	**20.** 18	**21.** x = 6 or x = 0
22. 10	**23.** no	**24.** -12