Task card 1 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 + 3x^2 - 4x + 3$ is divided by $(x - 4)$.

4	1	3	-4	3

Task card 2 Remainder & Factor Theorems

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

Task card 3 Remainder & Factor Theorems

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

Task card 4 Remainder & Factor Theorems

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

Task card 5 Remainder & Factor Theorems

$(x - 2)$ is a factor of $f(x) = x^3 - 4x^2 + x + 6$. Find the other two zeros.

Task card 6 Remainder & Factor Theorems

Find the remainder when $f(x) = 2x^3 + 4x^2 + 3x - 1$ is divided by $(x + 4)$.

Task card 7 Remainder & Factor Theorems

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

Task card 8 Remainder & Factor Theorems

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

Task card 9 Remainder & Factor Theorems

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

Task card 10 Remainder & Factor Theorems

Is $(x - 2)$ a factor of $f(x) = x^3 + 3x^2 + 7$? Write yes or no.

Task card 11 Remainder & Factor Theorems

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

Task card 12 Remainder & Factor Theorems

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

Task card 13 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 + 2x^2 + 5x - 3$ is divided by $(x - 4)$.

Task card 14 Remainder & Factor Theorems

$(x - 3)$ is a factor of $f(x) = x^3 + 7x^2 - 6x - 72$. Find the other two zeros.

Task card 15 Remainder & Factor Theorems

Find k so that $(x + 1)$ is a factor of $f(x) = x^3 - 3x + k$.

Task card 16 Remainder & Factor Theorems

Is $(x - 2)$ a factor of $f(x) = x^3 - 3x^2 - 3x + 10$? Write yes or no.

Task card 17 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 + 5x^2 - 5x + 2$ is divided by $(x - 2)$.

Task card 18 Remainder & Factor Theorems

Is $(x - 4)$ a factor of $f(x) = 2x^4 - 4x^3 - 3x^2 - 5x + 7$? Write yes or no.

Task card 19 Remainder & Factor Theorems

Find k so that (x - 1) is a factor of $f(x) = -x^4 + 3x^3 - x^2 - 2x + k$.

Task card 20 Remainder & Factor Theorems

(x - 3) is a factor of $f(x) = x^3 - 5x^2 - 18x + 72$. Find the other two zeros.

Task card 21 Remainder & Factor Theorems

Find the remainder when $f(x) = x^4 + 3x^3 + 5x^2 + 2x - 4$ is divided by (x - 1).

Task card 22 Remainder & Factor Theorems

(x + 4) is a factor of $f(x) = x^3 + 5x^2 + 2x - 8$. Find the other two zeros.

Task card 23 Remainder & Factor Theorems

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

Task card 24 Remainder & Factor Theorems

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

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 · Medium

The answers online

1. 99	**2.** 9	**3.** no
4. 8	**5.** x = 3 or x = -1	**6.** -77
7. no	**8.** 88	**9.** -9
10. no	**11.** -33	**12.** x = 1 or x = -1
13. 113	**14.** x = -4 or x = -6	**15.** -2
16. yes	**17.** 20	**18.** no
19. 1	**20.** x = 6 or x = -4	**21.** 7
22. x = 1 or x = -2	**23.** 20	**24.** no