Task card 1 Remainder & Factor Theorems

Find the remainder when $f(x) = -x^3 - 6x^2 - 4x + 3$ is divided by $(x - 2)$.

Task card 2 Remainder & Factor Theorems

Is $(x + 1)$ a factor of $f(x) = x^4 + 3x^3 + 3x^2 - 2x - 6$? Write yes or no.

Task card 3 Remainder & Factor Theorems

Find k so that $(x - 1)$ is a factor of $f(x) = x^4 + x^3 + x^2 + 6x + k$.

Task card 4 Remainder & Factor Theorems

$(x - 3)$ is a factor of $f(x) = x^3 - 4x^2 - 17x + 60$. Find the other two zeros.

Task card 5 Remainder & Factor Theorems

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

Task card 6 Remainder & Factor Theorems

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

Task card 7 Remainder & Factor Theorems

Find k so that $(x + 3)$ is a factor of $f(x) = 2x^3 + 5x^2 - 2x + k$.

Task card 8 Remainder & Factor Theorems

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

Task card 9 Remainder & Factor Theorems

Find the remainder when $f(x) = x^4 - 4x^3 + 6x^2 + 2x - 4$ is divided by $(x + 1)$.

Task card 10 Remainder & Factor Theorems

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

Task card 11 Remainder & Factor Theorems

Find k so that $(x + 1)$ is a factor of $f(x) = 3x^3 - 6x^2 + 3x + k$.

Task card 12 Remainder & Factor Theorems

$(x + 1)$ is a factor of $f(x) = x^3 - 6x^2 + 3x + 10$. Find the other two zeros.

Task card 13 Remainder & Factor Theorems

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

Task card 14 Remainder & Factor Theorems

$(x - 2)$ is a factor of $f(x) = x^3 + 6x^2 - x - 30$. Find the other two zeros.

Task card 15 Remainder & Factor Theorems

Find k so that $(x - 3)$ is a factor of $f(x) = x^4 + 3x^3 - x^2 - 6x + k$.

Task card 16 Remainder & Factor Theorems

Is $(x + 3)$ a factor of $f(x) = -x^4 - 4x^3 + x^2 - 5x - 51$? Write yes or no.

Task card 17 Remainder & Factor Theorems

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

Task card 18 Remainder & Factor Theorems

Is $(x - 1)$ a factor of $f(x) = -x^3 + 6x^2 + 4x + 6$? Write yes or no.

Task card 19 Remainder & Factor Theorems

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

Task card 20 Remainder & Factor Theorems

$(x - 3)$ is a factor of $f(x) = x^3 + x^2 - 17x + 15$. Find the other two zeros.

Task card 21 Remainder & Factor Theorems

Find the remainder when $f(x) = x^3 - 6x^2 - 3x - 6$ is divided by $(x + 4)$.

Task card 22 Remainder & Factor Theorems

$(x + 2)$ is a factor of $f(x) = x^3 - 8x^2 + 4x + 48$. Find the other two zeros.

Task card 23 Remainder & Factor Theorems

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

Task card 24 Remainder & Factor Theorems

Is $(x - 3)$ a factor of $f(x) = x^3 + 5x^2 + 4x - 84$? 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 · Hard

The answers online

1. -37	**2.** no	**3.** -9
4. x = 5 or x = -4	**5.** 96	**6.** x = 1 or x = -1
7. 3	**8.** no	**9.** 5
10. no	**11.** 12	**12.** x = 5 or x = 2
13. 32	**14.** x = -3 or x = -5	**15.** -135
16. yes	**17.** -6	**18.** no
19. -3	**20.** x = 1 or x = -5	**21.** -154
22. x = 6 or x = 4	**23.** 12	**24.** yes