Remainder & Factor Theorems · 1

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

Remainder & Factor Theorems · 2

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

Remainder & Factor Theorems · 3

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

Remainder & Factor Theorems · 4

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

Remainder & Factor Theorems · 5

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

Remainder & Factor Theorems · 6

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

Remainder & Factor Theorems · 7

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

Remainder & Factor Theorems · 8

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

Remainder & Factor Theorems · 2

ANSWER

no

Remainder & Factor Theorems · 1

ANSWER

-37

Remainder & Factor Theorems · 4

ANSWER

x = 5 or x = -4

Remainder & Factor Theorems · 3

ANSWER

-9

Remainder & Factor Theorems · 6

ANSWER

x = 1 or x = -1

Remainder & Factor Theorems · 5

ANSWER

96

Remainder & Factor Theorems · 8

ANSWER

no

Remainder & Factor Theorems · 7

ANSWER

3

Remainder & Factor Theorems · 9

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

Remainder & Factor Theorems · 10

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

Remainder & Factor Theorems · 11

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

Remainder & Factor Theorems · 12

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

Remainder & Factor Theorems · 13

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

Remainder & Factor Theorems · 14

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

Remainder & Factor Theorems · 15

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

Remainder & Factor Theorems · 16

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

Remainder & Factor Theorems · 10

ANSWER

no

Remainder & Factor Theorems · 9

ANSWER

5

Remainder & Factor Theorems · 12

ANSWER

x = 5 or x = 2

Remainder & Factor Theorems · 11

ANSWER

12

Remainder & Factor Theorems · 14

ANSWER

x = -3 or x = -5

Remainder & Factor Theorems · 13

ANSWER

32

Remainder & Factor Theorems · 16

ANSWER

yes

Remainder & Factor Theorems · 15

ANSWER

-135

Remainder & Factor Theorems · 17

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

Remainder & Factor Theorems · 18

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

Remainder & Factor Theorems · 19

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

Remainder & Factor Theorems · 20

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

Remainder & Factor Theorems · 21

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

Remainder & Factor Theorems · 22

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

Remainder & Factor Theorems · 23

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

Remainder & Factor Theorems · 24

Is $(x - 3)$ a factor of $f(x) = x^3 + 5x^2 + 4x - 84$? Write yes or no.

Remainder & Factor Theorems · 18

ANSWER

no

Remainder & Factor Theorems · 17

ANSWER

-6

Remainder & Factor Theorems · 20

ANSWER

x = 1 or x = -5

Remainder & Factor Theorems · 19

ANSWER

-3

Remainder & Factor Theorems · 22

ANSWER

x = 6 or x = 4

Remainder & Factor Theorems · 21

ANSWER

-154

Remainder & Factor Theorems · 24

ANSWER

yes

Remainder & Factor Theorems · 23

ANSWER

12