Remainder & Factor Theorems · 1

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

-1	-1	2	-3	-3

Remainder & Factor Theorems · 2

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

Remainder & Factor Theorems · 3

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

Remainder & Factor Theorems · 4

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

2	1	-3	-1	1

Remainder & Factor Theorems · 5

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

Remainder & Factor Theorems · 6

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

Remainder & Factor Theorems · 7

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

Remainder & Factor Theorems · 8

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

Remainder & Factor Theorems · 2

ANSWER

-8

Remainder & Factor Theorems · 1

ANSWER

3

Remainder & Factor Theorems · 4

ANSWER

-5

Remainder & Factor Theorems · 3

ANSWER

yes

Remainder & Factor Theorems · 6

ANSWER

yes

Remainder & Factor Theorems · 5

ANSWER

12

Remainder & Factor Theorems · 8

ANSWER

yes

Remainder & Factor Theorems · 7

ANSWER

3

Remainder & Factor Theorems · 9

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

2	2	3	-1	3

Remainder & Factor Theorems · 10

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

Remainder & Factor Theorems · 11

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

Remainder & Factor Theorems · 12

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

-1	-1	3	-1	-3

Remainder & Factor Theorems · 13

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

Remainder & Factor Theorems · 14

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

Remainder & Factor Theorems · 15

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

Remainder & Factor Theorems · 16

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

Remainder & Factor Theorems · 10

ANSWER

92

Remainder & Factor Theorems · 9

ANSWER

29

Remainder & Factor Theorems · 12

ANSWER

2

Remainder & Factor Theorems · 11

ANSWER

no

Remainder & Factor Theorems · 14

ANSWER

yes

Remainder & Factor Theorems · 13

ANSWER

-62

Remainder & Factor Theorems · 16

ANSWER

yes

Remainder & Factor Theorems · 15

ANSWER

1

Remainder & Factor Theorems · 17

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

2	1	3	-2	3

Remainder & Factor Theorems · 18

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

Remainder & Factor Theorems · 19

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

Remainder & Factor Theorems · 20

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

Remainder & Factor Theorems · 21

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

Remainder & Factor Theorems · 22

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

Remainder & Factor Theorems · 23

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

Remainder & Factor Theorems · 24

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

Remainder & Factor Theorems · 18

ANSWER

-16

Remainder & Factor Theorems · 17

ANSWER

19

Remainder & Factor Theorems · 20

ANSWER

18

Remainder & Factor Theorems · 19

ANSWER

no

Remainder & Factor Theorems · 22

ANSWER

10

Remainder & Factor Theorems · 21

ANSWER

x = 6 or x = 0

Remainder & Factor Theorems · 24

ANSWER

-12

Remainder & Factor Theorems · 23

ANSWER

no