Solutions – Remainder Theorem (A)

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

0

Find the remainder when $-2x^3 - 2x^2 + 2x - 9$ is divided by $(x - 5)$.

-299

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

-17

Find the remainder when $-2x^3 + x^2 + 2x + 10$ is divided by $(x - 5)$.

-205

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

6

Find the remainder when $x^3 + 4x + 7$ is divided by $(x + 2)$.

-9

Solutions – Remainder Theorem (B)

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

-84

Find the remainder when $-2x^3 - 3x + 9$ is divided by $(x - 3)$.

-54

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

65

Find the remainder when $x^3 - 3x^2 - 2x + 8$ is divided by $(x + 1)$.

6

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

3

Find the remainder when $-x^3 - 4x^2 + 2x + 9$ is divided by $(x - 5)$.

-206

Solutions – Remainder Theorem (C)

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

-114

Find the remainder when $2x^3 + 4x^2 - 5x + 9$ is divided by $(x + 2)$.

19

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

124

Find the remainder when $-2x^3 + 4x^2 + 7$ is divided by $(x - 1)$.

9

Find the remainder when $-2x^3 - 4x^2 - 4x - 7$ is divided by x.

-7

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

-17

Solutions – Remainder Theorem (D)

Find the remainder when $-2x^3 - x^2 - 7$ is divided by $(x + 1)$.

-6

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

-10

Find the remainder when $x^3 + 4x^2 + x - 7$ is divided by $(x - 2)$.

19

Find the remainder when $-x^3 + 3x^2 - x + 8$ is divided by $(x + 1)$.

13

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

3

Find the remainder when $-x^3 - 5x^2 - x + 1$ is divided by x.

1

Solutions – Remainder Theorem (E)

Find the remainder when $x^3 + x^2 - 3x + 8$ is divided by $(x + 5)$.

-77

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

-14

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

-14

Find the remainder when $-2x^3 + 3x + 7$ is divided by $(x + 5)$.

242

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

-157

Find the remainder when $-x^3 + 4x^2 + 5x + 6$ is divided by $(x - 5)$.

6

Solutions – Remainder Theorem (F)

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

-264

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

120

Find the remainder when $2x^3 - x + 10$ is divided by x.

10

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

63

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

12

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

-15

Solutions – Remainder Theorem (G)

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

-22

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

28

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

26

Find the remainder when $x^3 + 3x^2 + 7$ is divided by $(x + 5)$.

-43

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

179

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

141

Solutions – Remainder Theorem (H)

Find the remainder when $-2x^3 + 4x^2 - 4x - 9$ is divided by $(x + 1)$.

1

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

8

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

-4

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

-10

Find the remainder when $x^3 + 3x^2 + x - 8$ is divided by $(x + 2)$.

-6

Find the remainder when $x^3 - 5x^2 - 3x - 6$ is divided by $(x + 1)$.

-9

Solutions – Remainder Theorem (I)

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

-7

Find the remainder when $-2x^3 - 4x^2 + 10$ is divided by $(x + 5)$.

160

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

7

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

7

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

0

Find the remainder when $2x^3 + 5x^2 + 2x - 6$ is divided by x.

-6

Solutions – Remainder Theorem (J)

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

106

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

-21

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

-4

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

-23

Find the remainder when $-2x^3 + 3x - 10$ is divided by x.

-10

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

-135