

The Remainder Theorem

Evaluate each function at the given value.

1) $f(x) = -x^3 + 6x - 7$ at $x = 2$

$$\begin{aligned} f(2) &= -(2)^3 + 12 - 7 \\ &= -8 + 12 - 7 \\ &= 4 - 7 \\ &= \boxed{-3} \end{aligned}$$

3) $f(a) = a^3 + 3a^2 + 2a + 8$ at $a = -3$

$$\begin{aligned} -3^3 + 3(-3)^2 - 6 + 8 \\ -27 + 3(9) - 6 + 8 \\ -27 + 27 - 6 + 8 \\ -6 + 8 = \boxed{2} \end{aligned}$$

5) $f(a) = a^4 + 3a^3 - 17a^2 + 2a - 7$ at $a = 3$

$$\begin{aligned} 81 + 3(27) - 17(9) + 6 - 7 \\ 81 + 81 - 153 - 1 \\ 162 - 154 = \boxed{8} \end{aligned}$$

2) $f(x) = x^3 + x^2 - 5x - 6$ at $x = 2$

$$\begin{aligned} 2^3 + 4 - 10 - 6 \\ 8 + 4 - 10 - 6 \\ 12 - 10 - 6 \\ 2 - 6 = \boxed{-4} \end{aligned}$$

4) $f(a) = a^3 + 5a^2 + 10a + 12$ at $a = -2$

$$\begin{aligned} -8 + 5(4) - 20 + 12 \\ -8 + 20 - 20 + 12 \\ -8 + 12 = \boxed{4} \end{aligned}$$

6) $f(x) = x^5 - 47x^3 - 16x^2 + 8x + 52$ at $x = 7$

$$\begin{aligned} 16807 - 47(343) - 16(49) + 56 + 52 \\ 16807 - 16121 - 784 + 108 \\ -98 + 108 = \boxed{10} \end{aligned}$$

$$\begin{aligned} Y &= x^2 + 5x + 6 \\ &= (x+3)(x+2) \\ &= (x-1)(x-2)(x-4)(x-5) \end{aligned}$$

State if the given binomial is a factor of the given polynomial.

1) $(x^2 - 2)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ Yes

2) $(x - 2)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ Yes

3) $(x + 2)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

4) $(x^2 + 2)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

5) $(x^2 - 4)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

6) $(x^2 + 4)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

7) $(x^2 - 8)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

8) $(x^2 + 8)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

9) $(x^2 - 16)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

10) $(x^2 + 16)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

11) $(x^2 - 32)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

12) $(x^2 + 32)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

13) $(x^2 - 64)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

14) $(x^2 + 64)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

15) $(x^2 - 128)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

16) $(x^2 + 128)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

17) $(x^2 - 256)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

18) $(x^2 + 256)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

19) $(x^2 - 512)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

20) $(x^2 + 512)$ is a factor of $(x^3 - 2x^2 + 4x - 8)$ No

21) $(x^4 - 81)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ Yes

22) $(x^4 + 81)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

23) $(x^4 - 16)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

24) $(x^4 + 16)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

25) $(x^4 - 64)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

26) $(x^4 + 64)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

27) $(x^4 - 32)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

28) $(x^4 + 32)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

29) $(x^4 - 128)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

30) $(x^4 + 128)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

31) $(x^4 - 256)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

32) $(x^4 + 256)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

33) $(x^4 - 512)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

34) $(x^4 + 512)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

35) $(x^4 - 1024)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

36) $(x^4 + 1024)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

37) $(x^4 - 2048)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

38) $(x^4 + 2048)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

39) $(x^4 - 4096)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

40) $(x^4 + 4096)$ is a factor of $(x^5 - 81x^4 + 81x^3 - 81x^2 + 81x - 81)$ No

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VM Jensen



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