

Exercise - 2 (D)

- Question-11: Show that $(p-1)$ is a factor of $(p^{10}-1)$ and also of $(p^{11}-1)$
- Question-12: Find the value of k for which $(n-1)$ is a factor of $(2x^3+9x^2+x+k)$
- Question-13: Find the value of a for which $(n-1)$ is a factor of $(2x^3-3x^2-18x+a)$
- Question-14: Find the value of a for which $(n+1)$ is a factor of $(ax^3+x^2-2x+4a-9)$
- Question-15: Find the value of a for which $(n+ea)$ is a factor of $(x^5-4a^2x^2+2x+2a+3)$.
- Question-16: Find the value of m for which $(2x-1)$ is a factor of $(8x^4+4x^3-16x^2+10x+m)$.
- Question-17: Find the value of a for which the polynomial $(x^4-x^3-11x^2-x+a)$ is divisible by $(x+3)$.
- Question-18: Without actual division, show that $(x^3-3x^2-13x+15)$ is exactly divisible by (x^2+2x-3)
- Question-19: If (x^3+ax^2+bx+6) has $(x-2)$ as a factor and leaves a remainder 3 when divided by $(x-3)$ find the value of a and b .
- Question-20: Find the values of a and b so that the polynomial (x^3-10x^2+9x+b) is exactly divisible by $(x-1)$ as well as $(x-2)$
- Question-21: Find the values of a and b so that the polynomial $(x^4+ax^3-7x^2-8x+b)$ is exactly divisible by $(x+2)$ as well as $(x+3)$
- Question-22: If both $(x-2)$ and $(x-\frac{1}{2})$ are factors of Px^2+5x+8 prove that $P=8$
- Question-23: Without actual division, prove that $2x^4-5x^3-x+2$ is