Downloaded from www.studiestoday.com

POLYNOMIALS

Q1. Find the Value of p and q when the polynomial $x^3 + px^2 + qx + 6$ leaves remainder 3 when divided by x-3 and leaves the remainder zero when divided by (x-2) [Ans p=-3; q=-1]

Q2. Find the Value of 'a' and 'b' when the polynomial $x^4 - 2n^3 + 3x^2 - an + b$ the polynomial $x^4 - 2n^3 + 3x^2 - an + b$ leaves remainder 5, 19 when divided by (n-1), (n+1) respectively by (n-1), (n+1) respectively (n-1), (n+1) a = 5; (n+1)

Q3 final the Value of k when $4n^3 + 3n^2 + kx - 6$ is divided by (x+1) [Ans R = -7]

Q4. Show that (x+1) is a factor of x^3+x^2+x+1

Q5. What must be added to $x^3 - 3x^2 + 4x - 13$ to obtain a polynomial which is exactly divisible by x=3 x-3 [Ans: (1)

© www.studiestoday.com. Must NOT be copied or reproduced in any form or by any means.

Downloaded from www.studiestoday.com

stoday.com. Must NOT be copied or reproduced in any form or by an

liestoday.com.

Downloaded from www.studiestoday.com

© www.studiestoday.com. Must NOT be copied or reproduced in any form or by any means.

Q6. What must be subtracted from 4x3+16x2-x+5 to obtain a polynomial which is exactly divisible by (x+5)

[Ans: (-90)]

Q7. Find the Value of K if (x-K) is a factor of the polynomial $x^6-Kx^5+x^4$ $-Vx^3+3x-K+2$

[Ans: K=-1]

Q8 Show that (x-2), (x+3), (x-7) are factors of $x^3 - 6x^2 + 13x + 42$

Qq. Find entegral Zeroes of 3y3+8y2-1
[Aus: No vitegral Zero]

Q10. Show that the polynomial $2n^3 + 5n^2 - 5n - 1$ has no integral Zero.

© www.studiestoday.com. Must NOT be copied or reproduced in any form or by any means.

• www.studiestoday.com. Must NOT be copied or reproduced in any form or by any means.