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## POLYNOMIALS

Find Remarinder (1-5)

Q2. Divide 
$$3x^4 + 2x^3 - \frac{x^2}{3} + \frac{2}{27}$$
 by  $(x+\frac{2}{3})$ 

04. Divide 
$$3x^4 - 4x^3 - 3x - 1$$
 by  $(x - 1)$ 

Q5. Divide 
$$x^3-1$$
 by  $x-1$ 

[Ans: Q1, 
$$R = -7$$
; Q3,  $R = 2$   
Q2,  $R = -\frac{2}{27}$ ; Q4,  $R = -5$  © www

$$Q_2, R = -\frac{2}{27}$$
;  $Q_4, R = -5$ 

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Q6. Without actual division, find the remainder when 
$$9x^3 - 3x^2 + x - 5$$
 is divided by 
$$(x - \frac{2}{3})$$
[Ans  $R = -3$ ]

Q7. Using remainder theorem, find the remainder when 
$$4x^3 - 12x^2 + 14x - 3$$
 is divided by  $2x - 1$  [Ans  $x = \frac{3}{2}$ ]

Q8. Check whether 7+3x is a factor of 
$$3x^2+7x$$
 [Ans: Yes]



Q9. Find the Value of K for which the Polynomial  $2x^4 + 3x^3 + 2Kx^2 + 3x + 6$  is lampletely divisible by x + 2 [Ans: k = 1]

Q10. Find the Value of K for which the polynomial  $Kx^3 + 9x^2 + 4x - 10$  leaves polynomial  $Kx^3 + 9x^2 + 4x - 10$  derived the remainder as -22 when divided by x+3 [Ans: K=3]

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