



An English Medium Co.Ed. School | Science & Commerce

W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828 Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015

🚮 /vsajaipur | 💟 /vsajaipur | 📭 /vidyashreeacademy | 📵 /vsa_jaipur

Worksheet for Subject-Maths

Class- IX

Topic -Polynomials

- 1. Divide p(x) by q(x), where $p(x) = x + 3x^2 1$ and q(x) = 1 + x.
- 2. Find the remainder obtained on dividing $p(x) = x^3 + 1$ by g(x) = x + 1.
- 3. Divide the polynomial $3x^4 4x^3 3x 1$ by x 1.
- 4. Find the remainder when $x^4 + x^3 2x^2 + x + 1$ is divided by x 1.
- 5. Find the remainder when $x^3 ax^2 + 6x a$ is divided by x a.
- 6. Find the remainder without actual division for following:

a.
$$p(x)=5x^3+7x^2-2x$$
 $g(x)=x+1$

b.
$$p(x)=2-7x^2+6x$$
 $g(x)=x-1$

c.
$$p(x)=9+z-8z^2+5z^3$$
 $g(x)=x-2$

7. check (x-1) is factor of following polynomial:

a.
$$p(x) = 2 + x + 2x^2 - x^3$$
 b. $p(x) = (x - 1)(x + 1)$