

Concept_Grade-9_Polynomials

Factor Theorem

1. Factorize : $x^2 - 3x$
2. Factorize: $12a^2b - 6ab^2$?
3. If $f(x)$ be a polynomial such that $f(-\frac{1}{3}) = 0$, then calculate one factor of $f(x)$.
4. Find the value of m , if $x + 4$ is a factor of the polynomial $x^2 + 3x + m$.
5. Find the value of k , if $x - 2$ is a factor of $p(x) = 2x^2 + 3x - k$.
6. Find the value of k , if $2x - 1$ is a factor of the polynomial $6x^2 + kx - 2$
7. Write the factors of $ab^7 + ab^6$
8. Factorize : $20x^2 - 9x + 1$
9. Factorize : $6 - x - x^2$
10. Factorize : $8y^3 - 125x^3$
11. Find the value of k , so that polynomial $x^3 + 3x^2 - kx - 3$ has one factor as $x + 3$.
12. Find the value of k , if $x - 2$ is a factor of $f(x) = x^2 + kx + 2k$.