Polynomial

1. Give an example of a monomial and a binomial having degrees 82 and 99 resp.
2. Compute the value of $9x^2 + 4y^2$ if $xy = 6$ and $3x + 2y = 12$.
3. Find the length and breadth of the rectangular shaped field whose area is $25x^2 - 35x + 12$ sq. mt.
4. Find the remainder when $t^3 - 2t^2 + t + 1$ is divided by $t - 1$.
5. Find the zeros of the polynomial $x^2 - 3x + 2$.
6. Find the value of 'a' if degree of polynomial $x^3 + x^{a-4} + x^2 + 1$ is 4?
7. Check whether $(x-1)$ is a factor of $2x^4 + 3x^2 - 5x + 7$ or not.
8. Factorise $8x^4 - 4x^3 + 10x^2$.
9. Find the value of 'p' from the polynomial $x^2 + 3x + p$, if one of the zeros of the polynomial is 2.
10. Compute the zeros of the polynomial $4x^2 - 4x - 8$.