Brainbox learn easy

Chapter 02

POLYNOMIALS

Division Principle:

Dividend = (Divisor x Quotient) + Remainder

Where remainder is '0' or a polynomial of degree less than that of divisor.

Some Notations:

i) Dividend is $\mathrm{P}(x), \mathrm{F}(x), p(x) (\text{or}) f(x)$ etc;

ii) Divisor is $g(x)$

iii) Quotient is $q(x)$

iv) Remainder is R or $r(x)$

v) If divisor is first degree than remainder is of '0' degree i.e., a constant.

Hence 'R' is the remainder if $(x-a)(x-b), (ax+b)$ or $(ax-b)$ are the divisors.