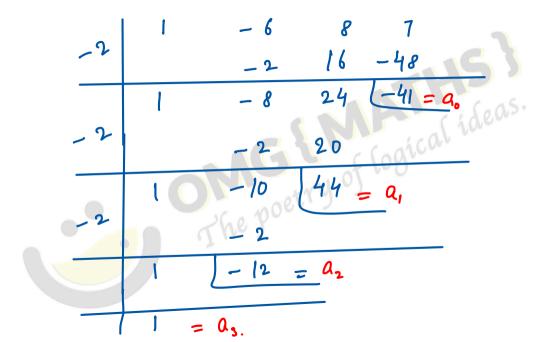
## **Theory Of Equations Polynomials** Horner's Method Of Synthetic Division Use synthetic division to express deas. $f(x) = x^3 - 6x^2 + 8x + 7$ polyno miae in powers of x+2. as a The Given Polynomial is Sol· $f(x) = \chi^3 - 6\chi^2 + 8\chi + 7.$

 $\int ut f(n) = Q_{1} + Q_{1}(n+2) + a_{2}(n+2)^{2} +$  $a_{3}(x+2)^{3}$ Isher a, a, a, a, a, are Constants. Qivide f(x) by x+2 by synthetic division The poetr repeatedly.



fut Values of a, a, a, and as in O  $f(x) = -41 + 44(x+2) - 12(x+2)^{2} + (x+2)^{3}$ The poe