(1)	Multiplication of two polynomial	
Cons	des the following polynomials 5/10/24	1
expone	4 13 + 3x2 + 1	
<del> </del>	$\frac{5x^3+7x+5}{\text{thruenb}}$	

Rule Coeffice

multiplied with each term of the polynomial (2)

and adding their exponents.

- Resultant Polynomial of above two polynomial after multiplication.

$$(4*5)n^{3-3} + (4*7)x^{3+1} + (4*5)x^{3+0} + (3*5)n^{2+3} + (3*7)n^{2+1}$$

$$+ (3*5)n^{2+0} + (1*5)n^{0+3} + (1*7)n^{0+1}$$

$$+ (1*5)n^{0+0}$$

Algorithm

Pto

Algorithm

Prince 5/10/21

1) store both Polynomial in two different linked list

2) Traverse both linked one by one & multiply each Coefficient and add each exporent.

grample (Previous)

int res1, res2 ', habite (ptyl = NULL) es 2 NULL;

ptr 2 = head 2 ;
while (ptr2! = NULL)

res1 = ptr1 -> coeff \* Ptr2 -> coeff

ros2 = ptr2 => expo + ptr2 -> expo;

head 3 = insert (head 3, res1, res2);

2 Pto 2 = pto 2 > link;

Pto1 = Pto1 -> link ;