16-8-20 989664 AV 226m id = 6 cm 07=10 CM Surface Areas & Volumes Find wal Cube: Lateral Surface Area: Total Surface Area: Yolume: ba2 Open Culoidical lox: 5 a² dia = J³a biloid dateral Surface Area: 2h(1+6) Jotal Surface Area: 2 (W+bh+lh) Diagonal: $5l^2+b^2+h^2$ Volume: Uh Open box Open room: 2h(l+b)+lxb Cylinder.

Parved Surface drea: 2 TTrh

Total Surface drea: 2 TTr(r+h)

Youme: TTr'h

Area of thering: TT(R+r)(R-r) A Cone # Potal Surface drea: The Istal Surface drea: The (1+r)

Hemisphere $CSA = 2\Pi n^2$ $TSA : 3\Pi n^2$ 2TT 23 Volume: Sphere TSA: 4TT 2 X Hollow Sphere Volume: 4 TT 22 Holow Cylinder (pipe)
(SA out: 271 R.H. A (SA in: 2Th TSA: (SA in + (SA out + 2 nings = 2 11 nh + 2 17 RH + 2 17 (R+r) (R-r Volume = Th (R+r) (R-r) drea = (SA in + (SA out + 2 rungs Points ... l'of rectangle = 2(l+b) drea = Total cost No - Big Area lit = 1000 cm³

Ch-2

Polynomials

o"- 6"-sab(a-b)

Algebric Adentities

(6-11

a² 53

 $(a+b)^2 = a^2 + 2ab + b^2$

(a-b) = a2 - 2ab + b2

 $a^2 - b^2 = (a+b)(a-b)$

 $(x+a)(x+b)=x^2+x(a+b)+ab$

 $(x+y+3)^2 = x^2 + y^2 + 3^2 + 2xy + 23y + 23x$

 $(a+b)^3 = a^3 + 3a^2 b + 3ab^2 + b^3$ or $a^3 + 3ab(a+b) + b^3$

 $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$ or $a^3 - 3ab(a-b) - b^3$

 $a^3 + b^3 = (a+b)(a^2-ab+b^2)$ 13=-3a

 $a^{3}-b^{3}=(a-b)(a^{2}+ab,+b^{2})$ $a^{3}-b^{3}=(a-b)(a^{2}+ab,+b^{2})$ 3

10. If at b+c=0, then a3+b3+c3=3alx

 $a^{3}+b^{3}+c^{3}-3abc=(a+b+c)(a^{2}+b^{2}+c^{2}-ab-bc-ca)$

- A 11 gm with langle 90° is a rectangle - 46 all sides are equal of a quadritaleral, it is a rhombus.
 - A rectangle with adj sides equal is
- Hone of the sides are equal no parallel, it is a 11 gm.

Mid Pt Th: The line joining the mid points of 2 sides of a D is 11 to the third side and half of the third side