cas  $\phi$  is closed =>  $d \phi = 0$ =>  $\int_{\partial d} \phi = \int_{X} d\phi = 0$ By Stoker' Thin

(16) \$\phi\$ is exact => 3 a humstion of s.t. \$H = \$p\$

=> B7 a some Ptipu d is Ubsect, i.l.

the terminal point Q, is the same

is the initial point p, P-Q.

 $\int_{\alpha} \phi = \int_{\alpha} dd \int_{r} f(\alpha) - f(r) = 0$  f. T. L. I

 $= 4u = -u^{-2}\sqrt{\frac{1}{1-u^{-2}}}$ 

$$= -\frac{1}{1 + (\frac{1}{2})^{2}} + g'(n)$$

$$= -\frac{1}{1 + (\frac{1}{2})^{2}} + g'(n)$$

$$= -\frac{1}{1 + (\frac{1}{2})^{2}} + g'(n) = g'(n) = 1$$

$$= -\frac{1}{1 + (\frac{1}{2})^{2}} + g'(n)$$

44 -> =f / (+1,-1) = ~ Horam S(u1) = fx(0) M1 + fx(0) M2 Solur) = fxy (a) mi + fryum (a) += 7 => fx= 4 => {fx= 6} fyz 1 => } fyxz1 => So (M1) = M2 So (M2) = M1 => So (aun +bun) = a Soluci + b Solucy
= bu, + aun Soz ( ) C remk 2

=> So (am + bur) = 4 au 1 + 4 bur

So = (2 2) - rank 1