

INVERSE LINEMATICS

Jeneral expression for 20 zlink arm; 92 (A) 50 (A) B=0,+0 B= 0+0, tan B= y 22+y2 = 6,2+622 + 26,62 (030) 0=103 (2 - (L12+L2)) similarly, 0 = cos L2-

 $\frac{9n \, D \, OBO}{\tan \alpha - \left(\frac{L_2 \, \sin \alpha_2}{L_1 + L_2 \, \cos \alpha_2}\right)}$ 

0, - tan'y tan (Lisinor Ly+ Licosor)

i) 
$$(x_1y)=(x_1)$$
  
 $x^2=x^2+y^2=4+1=5$ 

$$o_{1}$$
:  $cos^{-1} = \frac{5 - 6.25}{6} \approx 1.78$ 

$$(3,0)$$
 $(3,0)$ 

iv) 
$$(0, -2.5)$$
  
 $91^2 = 6.25$ 

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Date

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Date v) (4,0) 8<sup>2</sup>=16 Let 0,= Los (fx(n)) where f(r)= 22-6.25 4 (16) - 16-6.25 = 1-625 which dos doesn't lie in domain of cos'f vi) (0, 0.2) 0, = (03) (f(2)) f(h)= R2-6.25 {(0.02)= 0.04 - 6.25 - -1.035 € domain
6 of cos¹ point is unreachable The earn can move in the area enclosed to the circles of radii 0.5 & 3.5 centered at origin 0.5 (19 3.5 which is also the domain