(3) 
$$4-\sqrt{1-y^2}$$
  $y=\sqrt{1-x^2}$   $y=\sqrt{1-x^2}$ 

 $\left(\frac{1}{4}\right) - h\left(\frac{1}{2}\right) - h\left(\frac{$ 

(15) a) 21-x Since density has symptry on y=x, X= y as all feirls

Y=a-x on line y=x 'equal touthether,

P= k (x²+y²) (29 2a)

N= (x²+y²) (x²+y²) dydx k (x²+y²) (x²y+y²) (x²=k) (x²+y²) (x²+y