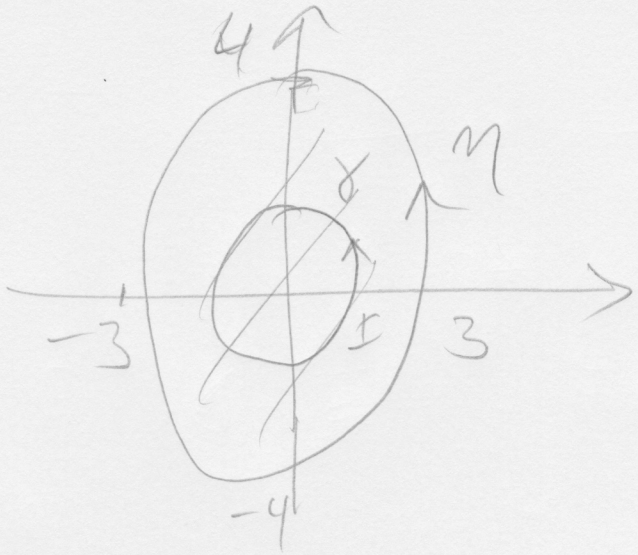
(6)

(4b)



$x=0,\ y=\pm 4$

$\frac{x^2}{9}+\frac{y^2}{16}=1$

$y=0,\ x=\pm 3$

not $F=0$ pois

$$F=\left(\frac{-y}{x^2+y^2},\frac{x}{x^2+y^2}\right)=(P,Q)$$

$$\text{not } F=\left(\frac{\partial Q}{\partial x}-\frac{\partial P}{\partial y}\right)$$

$$\frac{\partial Q}{\partial x}=\frac{1(x^2+y^2)-x(2x)}{x^2+y^2}=\frac{y^2-x^2}{x^2+y^2}$$

$$\frac{\partial P}{\partial y}=\frac{-1(x^2+y^2)+y(2y)}{x^2+y^2}=\frac{-x^2+y^2}{x^2+y^2}$$

//

Dai;