Subject: Sessiph 66

Year. Month. Date. ( )

1. $N_y - M_x = \frac{0}{r^2} - \frac{0}{r^2} = 0$

2. $\int_C F \cdot dr = \int_C F \cdot \frac{dr}{dt} dt = \int_0^{2\pi} \frac{+\sin^2\theta}{} + \frac{\cos^2\theta}{r^2} d\theta$

$= \int_0^{2\pi} 1 \cdot d\theta = 2\pi \neq 0$

3. because it's tangent to the unit circle.

4. $\nabla\theta = \left\langle \frac{1}{1+(\frac{y}{x})^2} \frac{-y}{x^2} = \frac{-y}{r^2}, \frac{x}{r^2} \right\rangle$