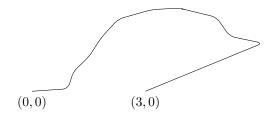
3. (15 points) Let C be the following curve from the point (0,0) to the point (3,0):



Calculate

$$\int_C \vec{F} \cdot \vec{T} \, \mathrm{d}s,$$

where  $\vec{F} = (e^x \cos y + 2x/9)\vec{\imath} - (e^x \sin y)\vec{\jmath}$ .

6.	$(10 \text{ points})$ $z = x^2 - y^2$	Set up <b>but d</b> which lies abo	on't solve a deve the disk $x^2$ +	suble integral to $y^2 \le 3$ .	calculate the su	urface area of the	portion of