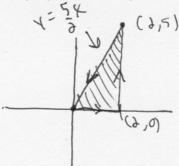
Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Let C be the path consisting of the triangle formed by the line segment from the origin to (2,0), followed by the line segment from (2,0) to (2,5), and then by the line segment from (2,5) back to

the origin. Compute $\int_{C} \langle -y, 2x \rangle \cdot d\vec{r}$.



By grans Maren,
$$\begin{bmatrix}
(-4, 3x) \cdot dx = \\
0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
(2 - (-1)) \cdot dx
\end{bmatrix}$$

$$\begin{bmatrix}
(3 + 1) \cdot dx
\end{bmatrix}$$