Fake Quiz 3Calculus 311/13/2007

Each problem is worth 0 points. In the event of an actual quiz, you would have received warning.

1. Let $\mathbf{F}(x, y, z) = -y \mathbf{i} + x \mathbf{j} + a z \mathbf{k}$ for some constant *a*. Evaluate $\int_C \mathbf{F} \cdot d\mathbf{r}$, where *C* is a counterclockwise (when viewed from above) circle of radius 2 centered on the *z*-axis in the plane *z* = 5.