Cal III Quiz

Name:
drill time:

1. Given the force field $F(x, y, z) = < x, y, z >$, find the work required to move an object along the line segment from $(1, 1, 1)$ to $(1, 2, 4)$.

2. Find the scalar integral $\int_C x \, ds$ where C is the curve $y = x^2$ from $(0, 0)$ to $(2, 4)$.