

### Use What You Know in Rectangular Coordinates:

Next, use what you know about the path to find an expression for  $d\vec{r}$  along the specific path 4 in the second figure below.

$$d\vec{r} =$$

This is the line element in rectangular coordinates along path 4.

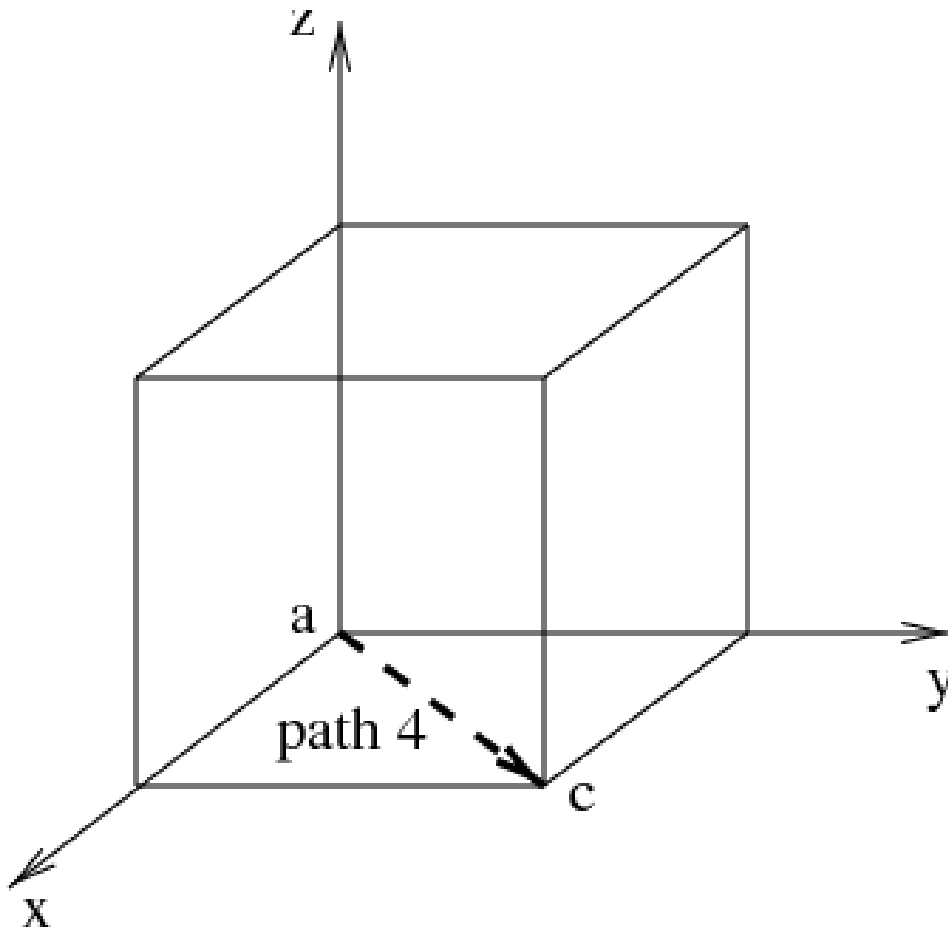


Figure 1: Figure 2:  $d\vec{r}$  along path 4