

**Math 225: Calculus III**  
**Quiz 1 Jan 18/20, 1994**

Name: \_\_\_\_\_

Section: \_\_\_\_\_

1. Find the length of the perimeter of the parallelogram with sides given by the vectors  $(1, 2, 2)$  and  $(3, 0, 4)$  located at the origin.

*quiz1.eps*

2. Let  $\vec{u} = -\vec{c} + 2\vec{d}$  and  $\vec{v} = 3\vec{c} - 2\vec{d} + 5\vec{e}$ . Compute the cross product  $\vec{u} \times \vec{v}$ .