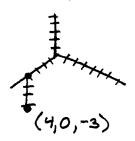
Each problem is worth 5 points, show all work for partial credit.

1. Suppose you start at the origin, move along the x-axis a distance of 4 units in the positive direction, and then move downward a distance of 3 units. What are the coordinates of your position?



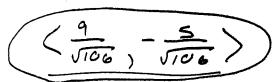
$$X=4$$
  $g=0$   $z=-3$ 



2. Find a unit vector that has the same direction as the vector <9, -5>.



Same direction.



3. If a=<4,-1> and b=<3,6>, find  $a \cdot b$ .

