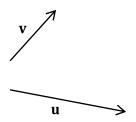
Name:

Problem 1 (10 points)

a) Compute the sum and the difference of the vectors (9,3,-1) and (2,-2,10).

b) Copy the vectors in the figure and use them to draw the vectors $\mathbf{u} + \mathbf{v}$ and $\mathbf{u} - \mathbf{v}$.



Problem 2 (10 points)

- a) Find an equation of the sphere with radius 3 and center C(2,3,4).
- b) Find an equation of the sphere through the point A(5,4,2) with center C(2,3,4).