**10B Forces as Vectors**

1. The forces , and act on an object which is in equilibrium. Find the values of x and y.
2. In this question i represents the unit vector due east, and j represents the unit vector due north. A particle begins at rest at the origin. It is acted on by three forces and .
3. Find the resultant force in the form
4. Work out the magnitude and bearing of the resultant force
5. Describe the motion of the particle