**8D Vectors**



1. Fully describe the motion of the particles below:



2D Notation

1. The velocity of a particle is given by $v=3i+5j ms^{-1}$

Find:

1. The speed of the particle
2. The angle the direction of motion of the particle makes with the unit vector **i**.
3. A man walks from A to B and then from B to C. His displacement from A to B is 6**i** + 4**j** km. His displacement from B to C is 5**i** – 12**j** km.
4. What is the magnitude of the displacement from A to C?
5. What is the total distance the man walked in getting from A to C?