W52

## Component Parts

- 1. You are driving along at 20 m/s on a road that heads at an angle of 25 ° W of N.
- (a) At what rate are you going N

18,1M/S

(b) At what rate are you going W?

8,5M/S

2. An airplane descending to the runway at 250 m/s is going at an angle of 22° with the horizontal. Find (a) Its horizontal velocity

231 m/s

(b) Its rate of descent.

94M/S

3. You are going 20 m/s up a hill that makes an angle of 12° with the horizontal. How fast are you going (a) Horizontally

(9,6 M/S

- (b) Vertically?
  - 4.1 m/s