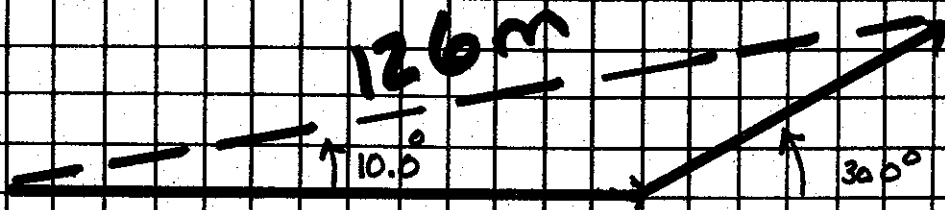


1. A) Vector
- B) scalar
- C) scalar
- D) Vector
- E) scalar

2)

Given:  $\vec{V}_1 = 85 \text{ m horizontally}$   
 $\vec{V}_2 = 45 \text{ m @ } 30.0^\circ \text{ Above horizontal}$

Find:  $\Delta x = ?$   
 $1 \text{ cm} = 1 \text{ m}$



126 m @ 10.0° Above  
horizontal

3) Given:

$\vec{V}_1 = 250 \text{ km/h north (Plane)}$

$\vec{V}_2 = 75 \text{ km/h southeast (wind)}$

Find: resultant velocity

Soln:

10 km = 1 cm

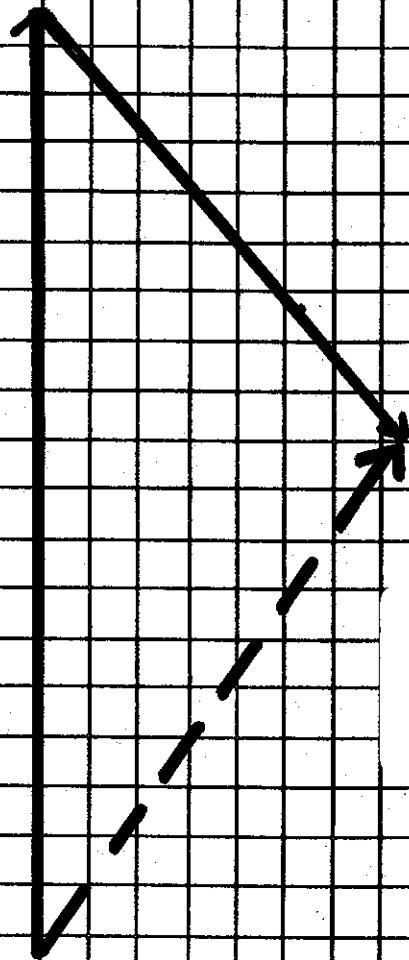


4) Given:  $\vec{V}_1 = 125 \text{ km/h North (Plane)}$   
 $\vec{V}_2 = 75 \text{ km SouthEast (Wind)}$

Resultant Velocity

Soln:

$10 \text{ km} \neq 1 \text{ cm}$



$86 \text{ km/h @}$   
 $54^\circ \text{ North of}$   
 $\text{EAST}$