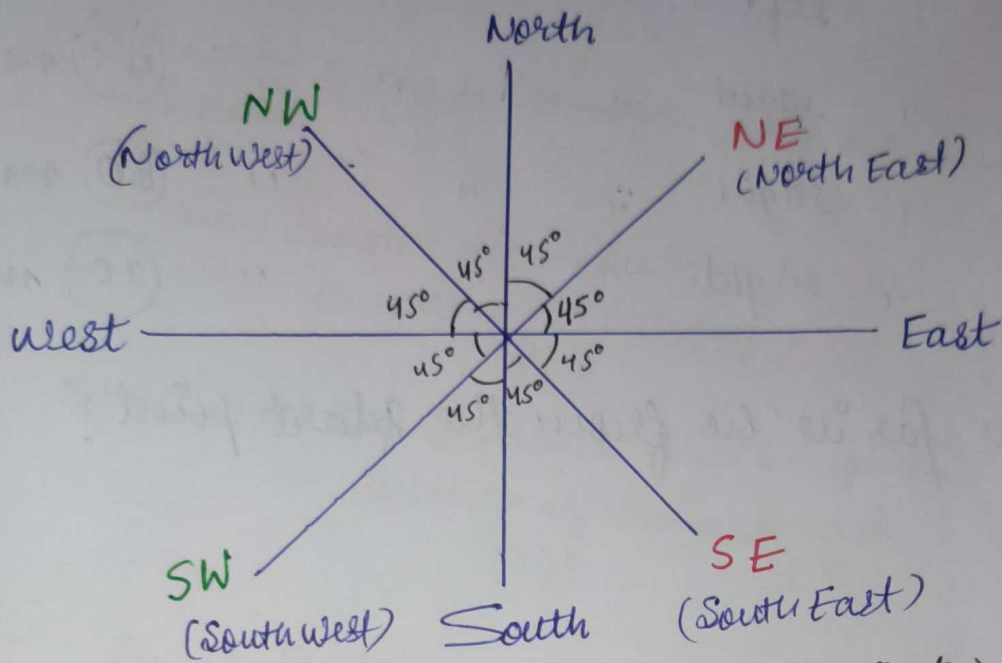
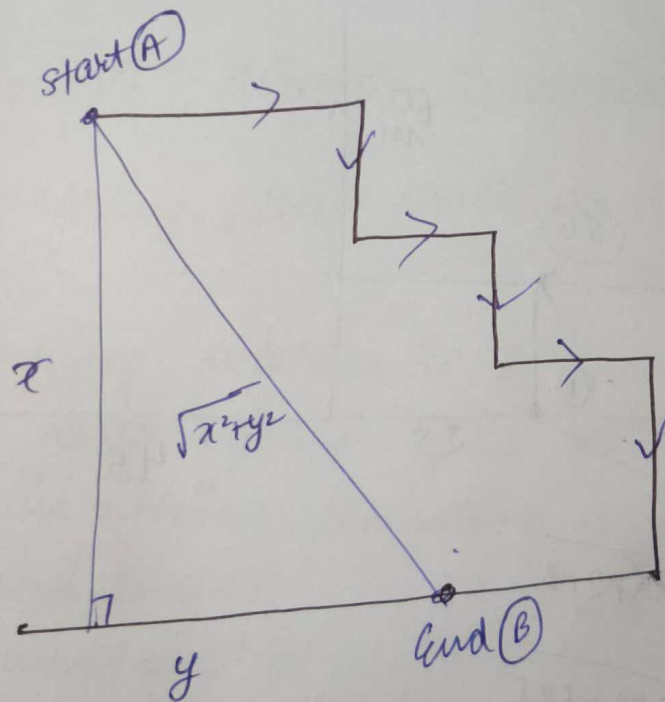


# Directions



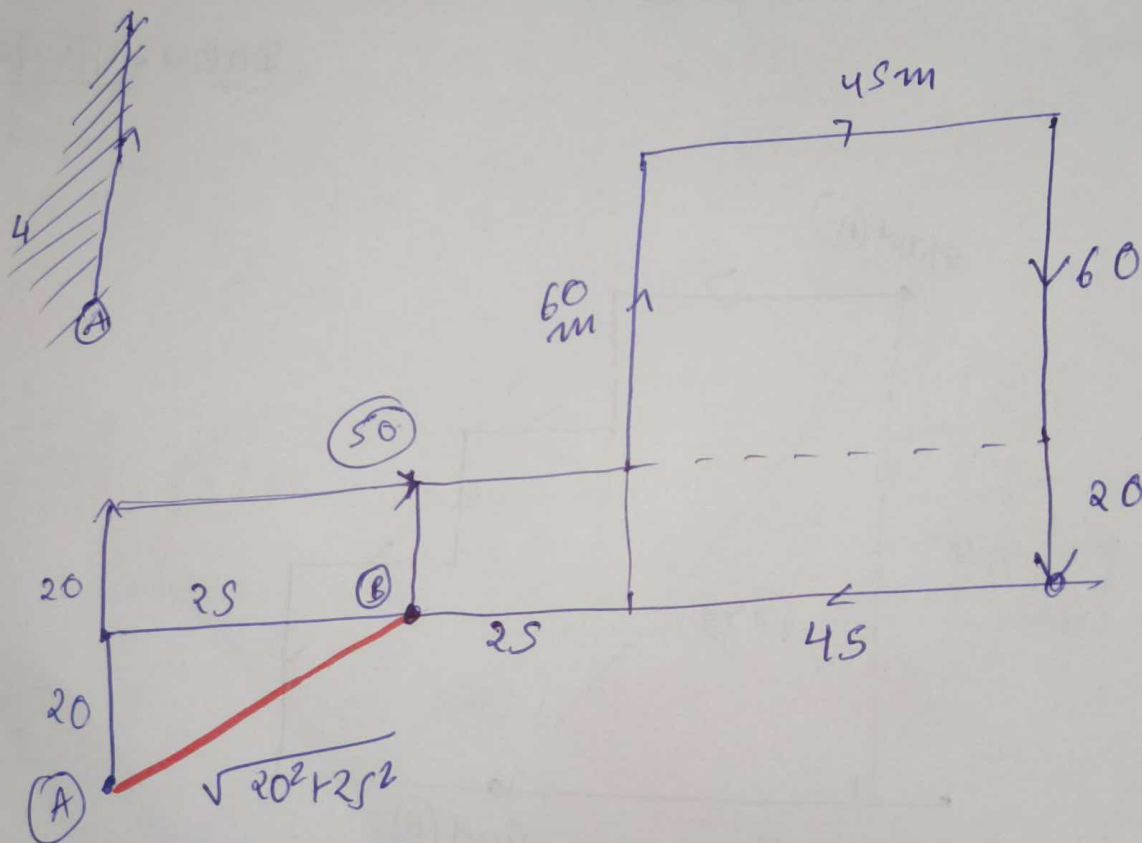
Date  $\rightarrow$  24/02/23



- \* A B ko kis direct<sup>n</sup> mai dekh rahi  $\Rightarrow$  SE
- \* B A ko kis direct<sup>n</sup> mai dekh rahi  $\Rightarrow$  NW

Q. (A) moves 40 m north.  
 then takes right turn and moves 50 m  
 " " left " " " 60 m  
 " " right " " " 45 m  
 " " right " " " 80 m  
 " " right " " " 70 m

How far is he from the start point?



$$= \sqrt{400 + 625}$$

$$= \sqrt{1025}$$

$$= 32.01$$

$$32^2 = 1024 \quad 2^{10}$$

## \* Train and Smoke Question

## Direction

Smoke direction = opposite to train direction + air direction  
 Eg  $\rightarrow$  South + east  
 $\rightarrow$  SE

Ex  
 $\rightarrow$  Direction of train is north and air is west, then direction of smoke. (SW)

$\rightarrow$  Train  $\rightarrow$  South, Air = South  
 Smoke = NS (wrong)  
 ???

Then some more details will be given in ques such as  
 Velocity of train & air  
 $(V_T)$   $(V_a)$

Case ① If  $V_T$  is greater than direction of smoke is opposite to train.

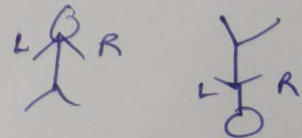
Case ② If  $V_a$  is greater than direction of smoke is in air.

Case ③ If  $V_T = V_a$ , direction is straight upward.

Case ④ If nothing, then can't determined.

\* In a morning a person is performing Yoga with his head down and legs up. If at this time his face towards west then in which direction his left hand is?  
 face  $\rightarrow$  downward is west.

then face upward will be east.  
 (just opposite).



ce = west  $\rightarrow$  opposite will be east  $\rightarrow$  left hand (L)

Direction will not change

$\rightarrow 90^\circ$  ACW

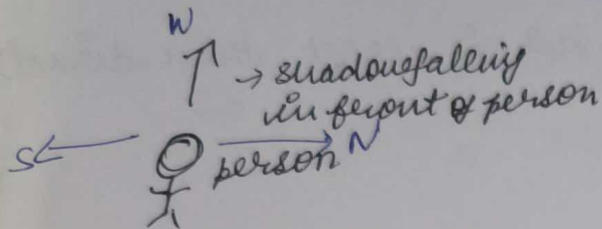
$\rightarrow$  North



# \* Shadow Questions

① Morning  
Sun  
↳ East

② Evening  
Sun  
↳ West



then sun will be  
N ← → S



if morning

(E)

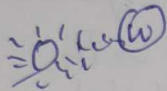
if evening

(W)

evening

(E)

Ram



Shyam  
↓  
(E)

if Shyam shadow is left side then sun will be

(E)

Ram is facing North

Shyam is facing South

Q. One morning after sunrise Manojit and Sangita were walking to each other face to face at the park. If Manojit shadow was exactly right to Sangita, which direction Manojit was facing?

W shadow

N Manojit →

← Sangita S

South



E

Fa