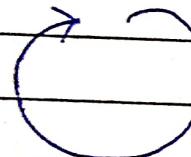
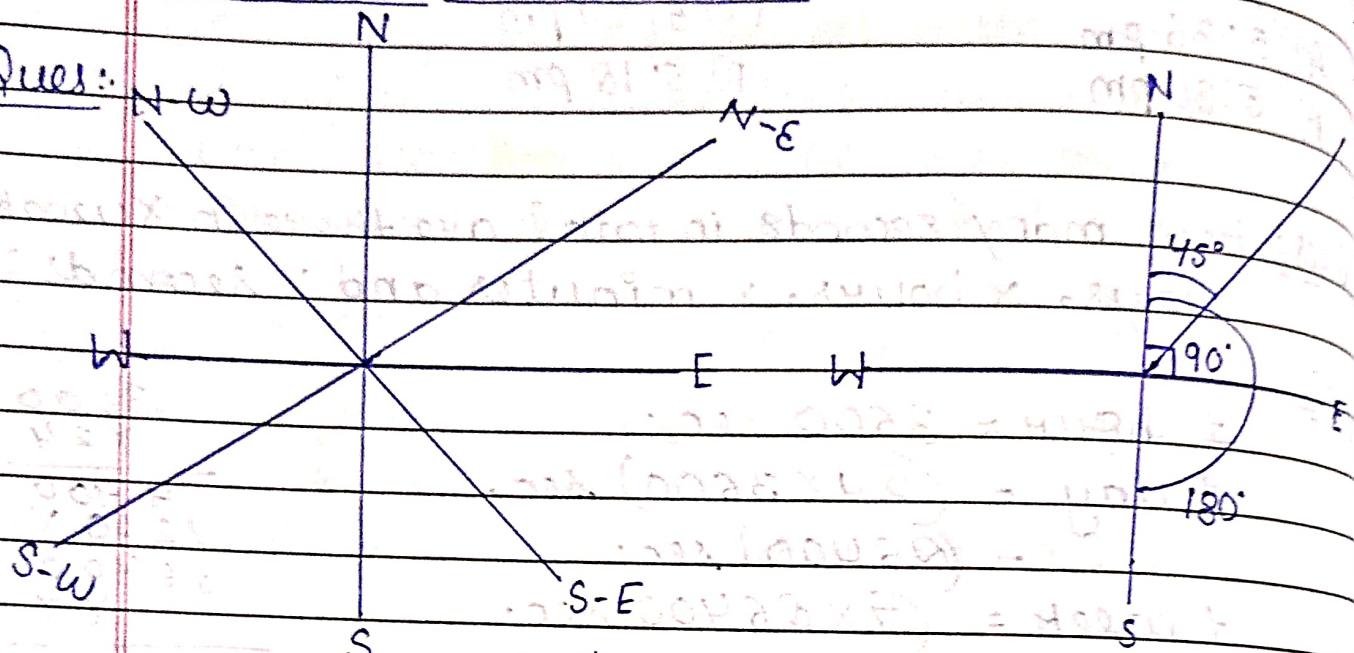


Direction

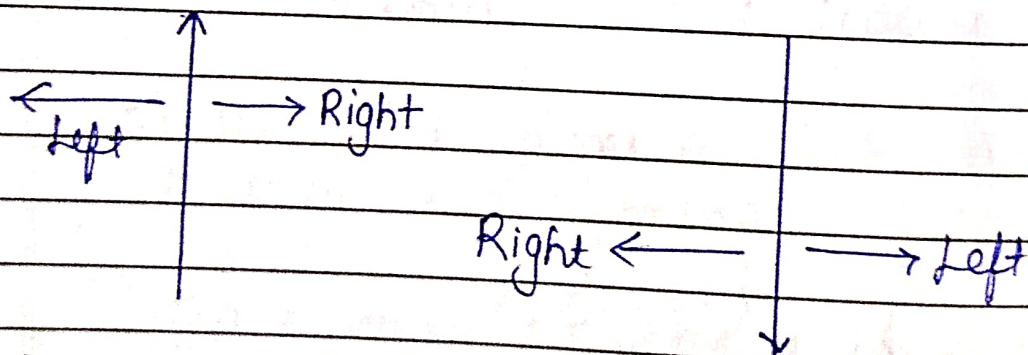
Ques:



clockwise



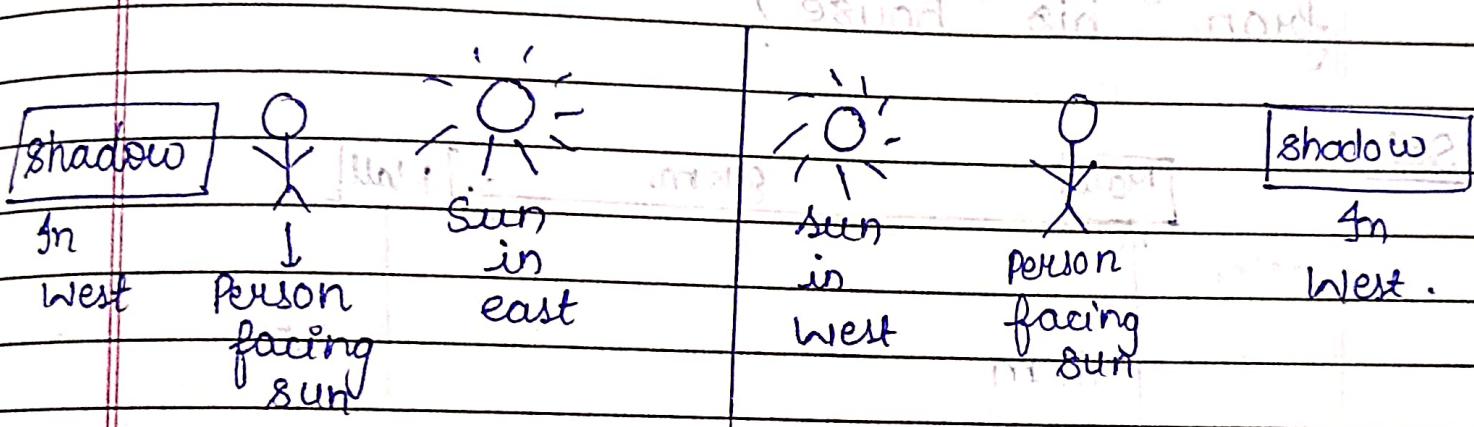
Anti-clockwise



A person taking 4 turns from any direction returns to the same direction.
And after taking 2 turns it comes in exactly opposite direction.

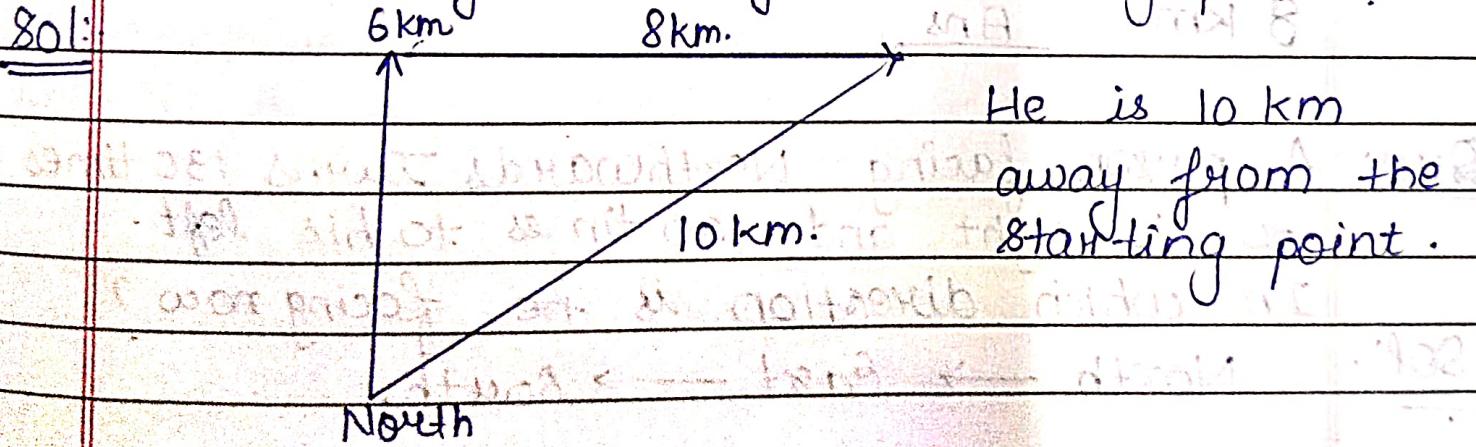
Pythagorean Triplet :-

- $$(1) (3, 4, 5)$$
- $$\downarrow$$
- $$(6, 8, 10)$$
- $$\downarrow$$
- $$(9, 12, 15)$$
- $$\downarrow$$
- $$(5, 12, 13)$$
- $$\downarrow$$
- $$(8, 15, 17)$$
- $$\downarrow$$
- $$(7, 24, 25)$$
- $$\downarrow$$
- $$(9, 40, 41)$$



Ques: A person travels 6 km Northwards.

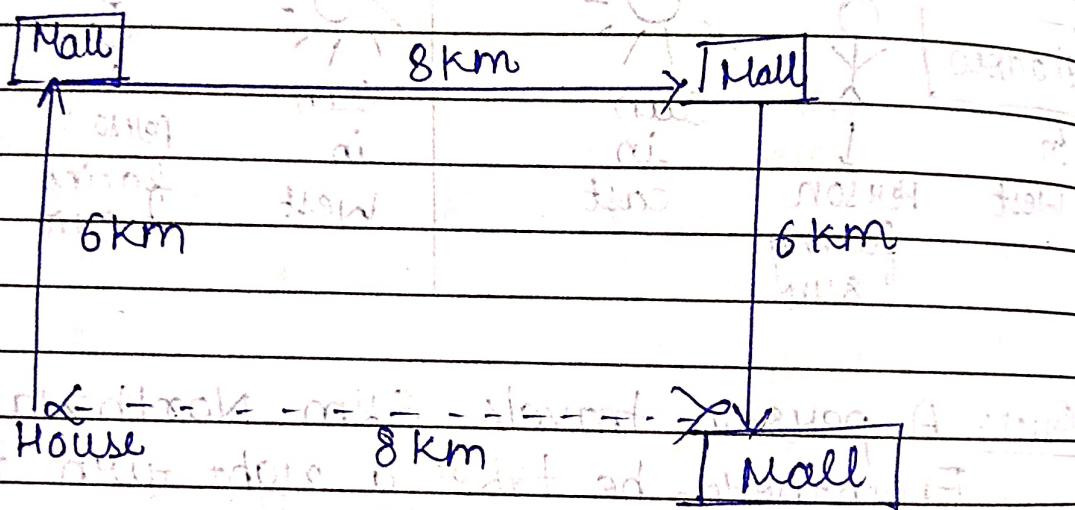
From there, he takes a right turn and walks 8 km. How far is he from starting point?



∴ 10 km Ans/

Ques: Siddharth goes to a mall which is 6 km North to his by bus. Thereafter, he decides to go to another mall. So he turns right and reaches the second mall which is 8 km away. From there he goes to the third mall which is 6 km away, taking a right turn. How far is Siddharth from his house?

Sol:



Ques: A person facing Northwards turns 130 times to his right and 120 times to his left. In which direction is he facing now?

Sol:

North → East → South.

Ques: A person facing eastwards turns 272 times to his left and 190 times to his right. In which direction is he facing now?

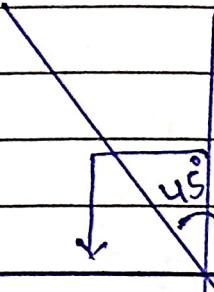
Sol:

82 20
4

West.

Ques: A person is walking Northwards. He takes a turn 45 degree ~~to~~ anticlockwise. Then he takes a turn 135 degree clockwise and lastly he takes a turn 180 degree anticlockwise. In which direction is he facing now?

Sol.:



Anticlockwise :-

$$180 + 45 = 225$$

clockwise :-

(225 - 135) $= 90^\circ$ anticlockwise

So he is facing West.

Ans: (A) West

Ques: A man is performing Yoga with his head down and legs up. His face is towards the west. In which direction will his left hand take?

Ans: North

(A) North

(B) South

(C) East

(D) West.

Ques: A man is performing yoga with his head down and legs up. His face is towards the south-east. In which direction will his left hand be?

Ans: North-East

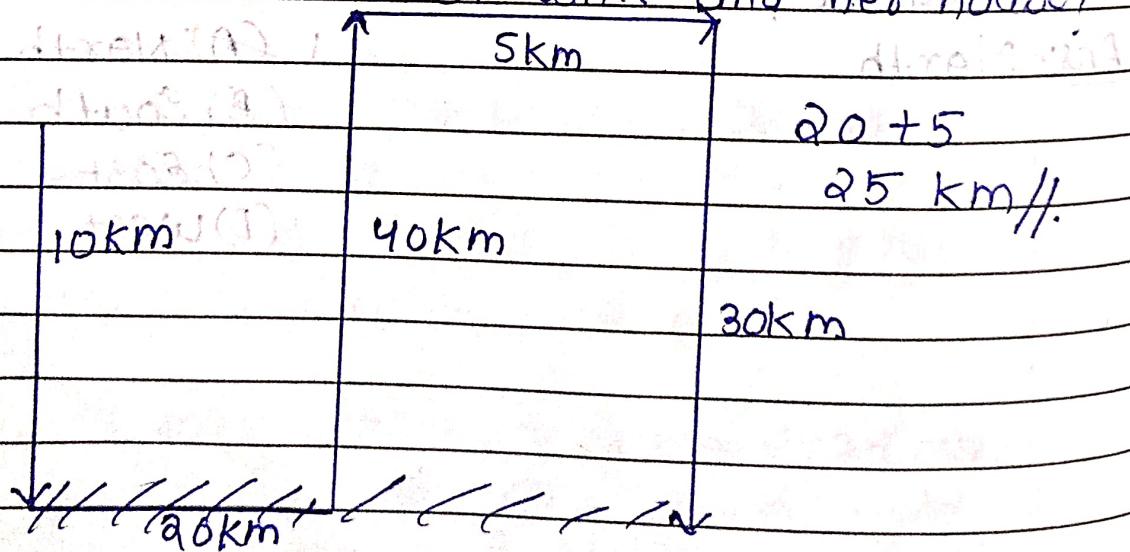
South-East

North-West

South-West (✓) Ans.

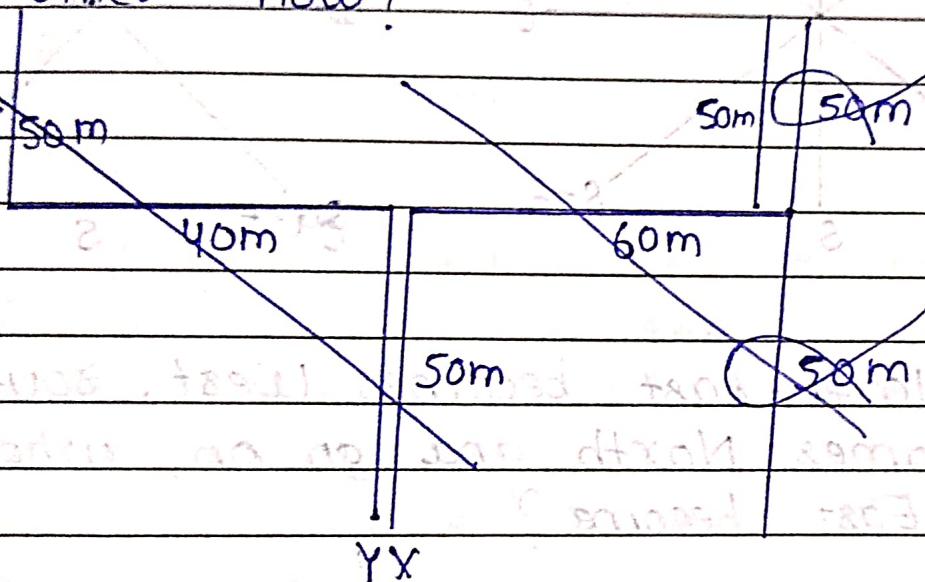
Ques: A bank employee drives 10 km towards South from her house and turns to her left and drives another 20 km. She again turns left and drives 40 km, then she turns to her right and drives for another 5 km. She again turns to her right and drives another 30 km to reach her bank where she works. What is the shortest distance between her bank and her house?

Ans:



Ques: Two friends X and Y start running and they run together for 50m in the same direction and reach a point. X turns right and runs 60m, while Y turns right left and runs 40m. Then X turns left and runs 50m and stops, while Y turns right and runs 50m and then stops. How far are the two friends from each other now?

Sol:



100m

50m

40m

60m

50m

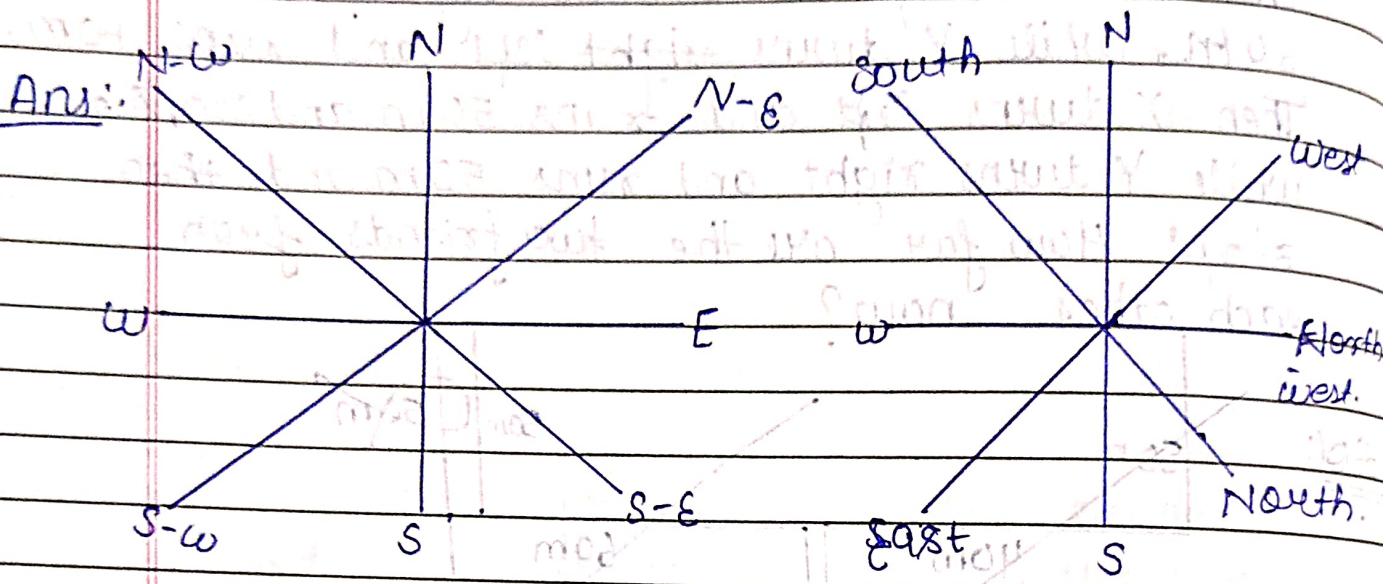
50m

50m

$\Rightarrow 100m$ Ans

Y X

Ques: If North-East becomes West, South-East becomes North and so on, what will East become?

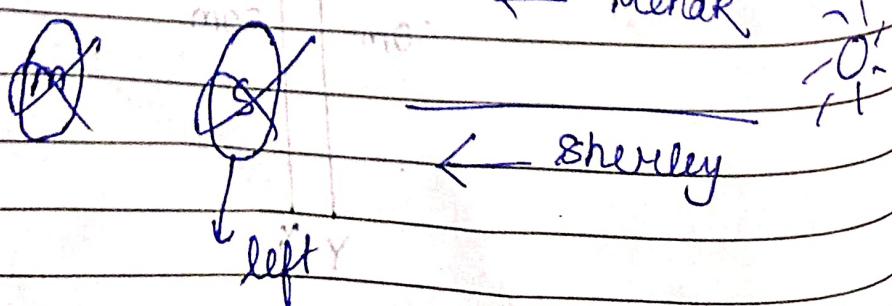


Ques: If North-East becomes West, South-East becomes North and go on, what will East become?

Sol: North-West

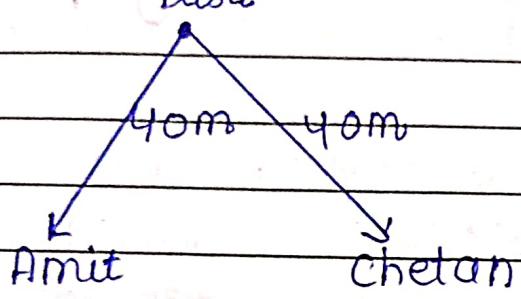
Ques: During morning, Mehak and Shirley were standing face to face with each other. If the shadow of Mehak fell exactly to the left of Shirley, then what direction is Mehak facing?

Ans: South



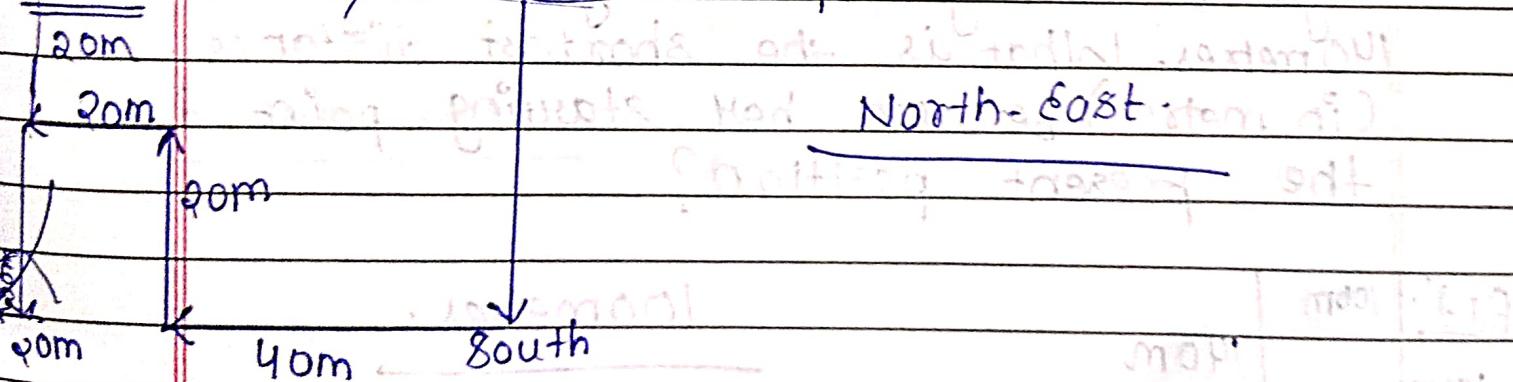
Que. Amit is 40m south-west of Basu. Chetan is 40m south-east of Basu. Then, Chetan is in which direction of Amit?

Sol: East



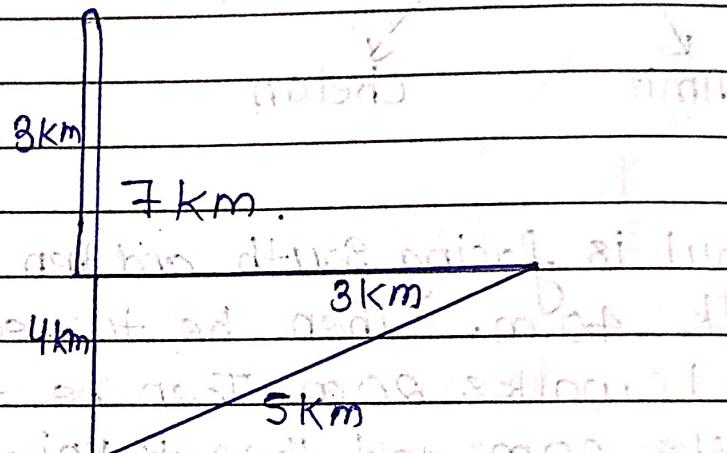
Ques. Rahul is facing South and then he turned right & walk 40m. Then he turned right again and walks 20m. Then he turned left and walks 20m and then turning right walk 20m. Then he turned right again & walks 80m. In which direction is Rahul from the starting point?

Ans: 80m N.E. from the starting point



Ques: Sahil walks 7 kilometers towards North. From there, he walks 3 km towards South. Then he walks 3 km towards East. How far and in which direction is he with reference to his starting point?

Ans: 5 km North-East.



Ques: Vaishali walks 140 metres towards West, then turns to her right and walks 140 metres and then turns to her left and walks 100m. Again, turning to her left, she walks 140 metres. In what is the shortest distance (in metres) between her starting point & the present position?

Ans: 100m

140m

140m

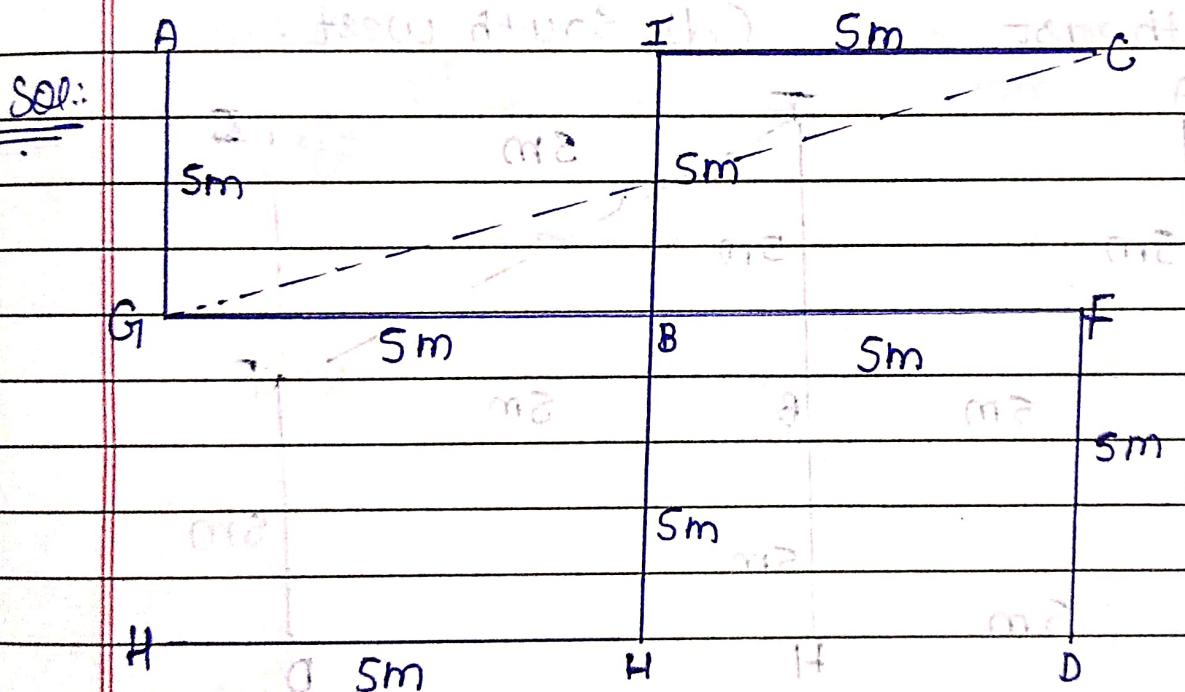
140m

100metres

Ques: - Vertical line is drawn from H to I; I is in north of H. Horizontal line is drawn from G to F; F is in east of G. B is midpoint of both the lines. A is 5m north to G. E is 5m west to H. D is 5m south to F. C is 5m east to I. Length to GF and HI is same. i.e., 10m.

In which direction is point G with respect to C?

- (a) North east (b) North- west
- (c) South-east (d) South- west



South-West

Ans//.

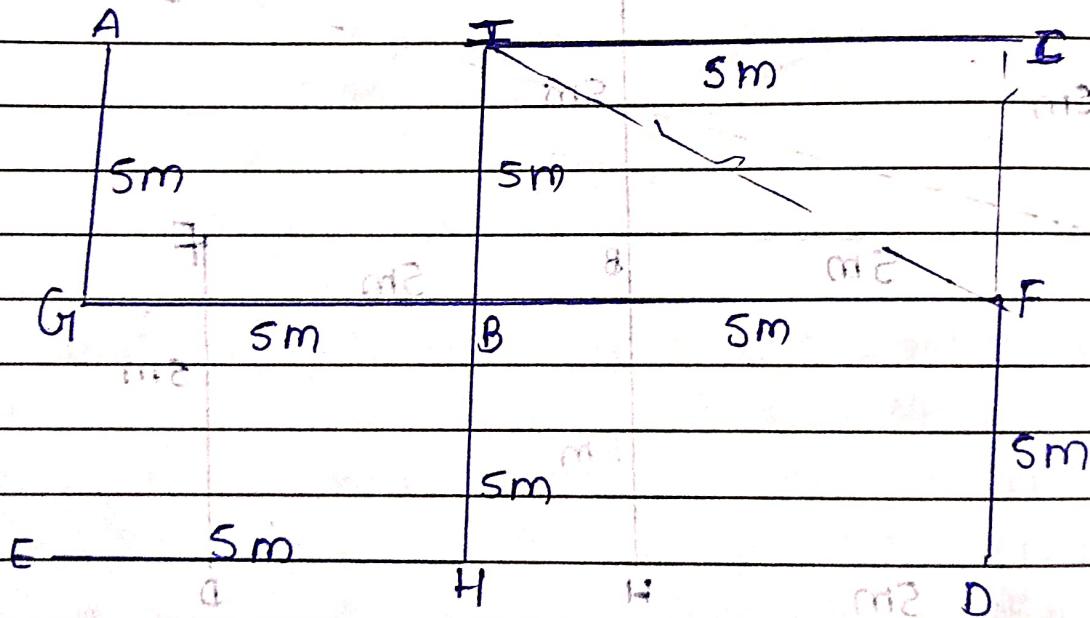
~~DPP~~

Ques:6 Vertical line is drawn from H to I; I is in the north of H. Horizontal line is drawn from G to F; F is in east of G. B is the mid point of both the lines. A is 5m North to G. E is 5m West to H. D is 5m South to F. C is 5m East to I. Length to GF and HI is same. i.e. 10m.

In which direction is point I with respect to F?

- (a) Northeast
- (b) North-West
- (c) Southeast
- (d) South West.

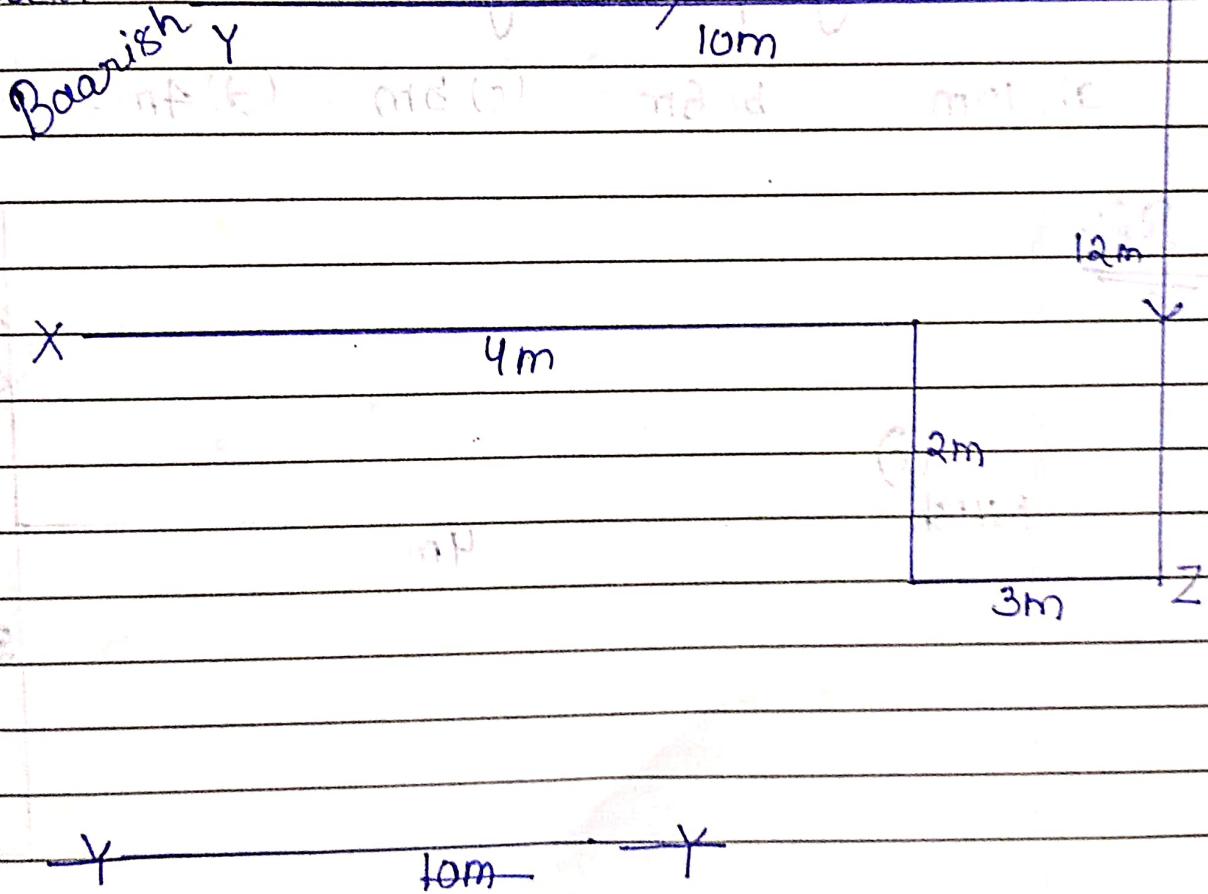
Sol.:



Ques Nitish walks for 4m from point X in the east direction. He then takes a right and a left turn and walks for 2m and 3m respectively. and finally reaches point Z. Baanish starts walking from point Y and walks for 10m in east direction, she then takes 3 consecutive right turns and walks 12m, 3m and 4m respectively and reaches point Z. In which direction is point Z with respect to point Y?

- (a) Southwest (b) Northeast (c) Southeast
- (d) North West.

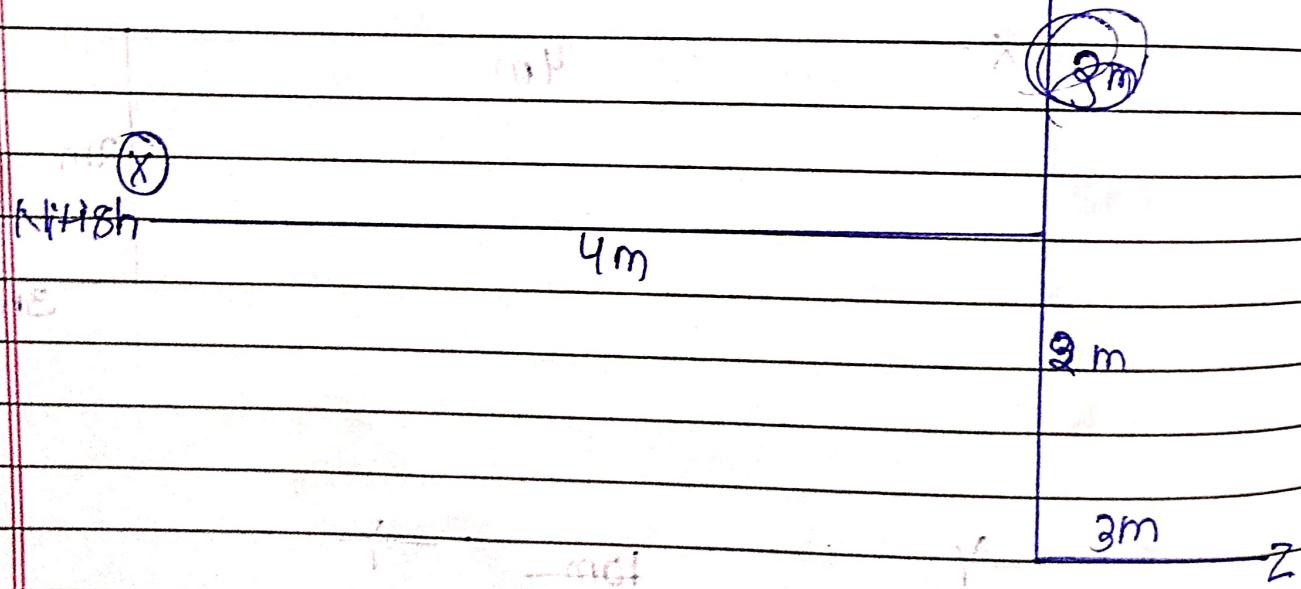
Ans.



Ques: Nitish walks for 4m p from point X in the east direction. He then takes a right turn and a left turn and walks for 2m and 3m respectively and finally reaches point z. Baavish starts walking from point Y and walks for 10m in east direction, she then takes 3 consecutive right turns and walks 12m, 3m and 4m respectively and reaches point z. What is the shortest distance between starting point of Nitish and starting point of Baavish?

- (a) 10m (b) 6m (c) 8m (d) 4m

Sol:-

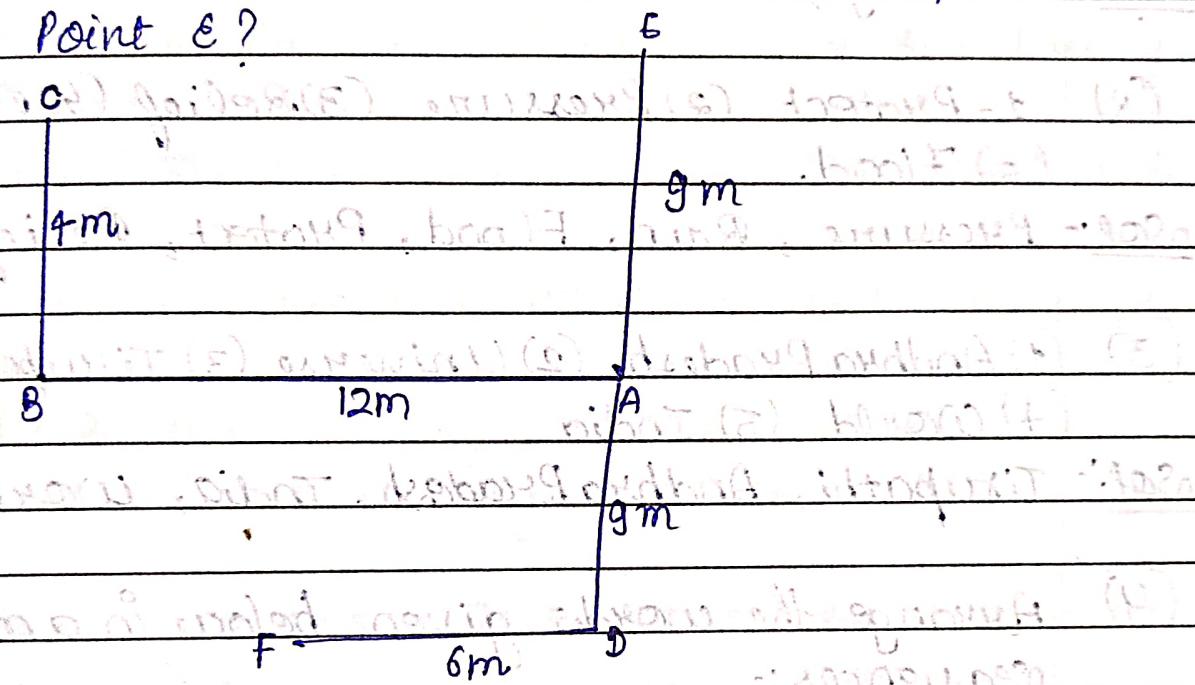


What is the direction of Nitish w.r.t Baavish?

Ques Point B is 12m to the west of point A. Point C is 4m to the north of point B. Point D is 18m to the south of point E. Point F is 6m to the west of point D. Point A lies exactly between Point E and Point D.

What is the shortest distance between point B and point E?

Ans.



$$(BE)^2 = (BA)^2 + (AE)^2$$

$$= (12)^2 + (9)^2$$

$$BE = \sqrt{144 + 81} = 15 \text{ m}$$