

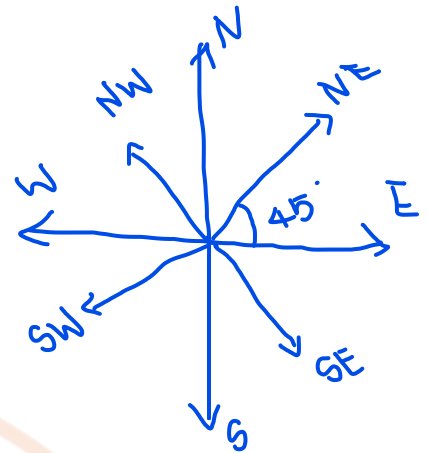
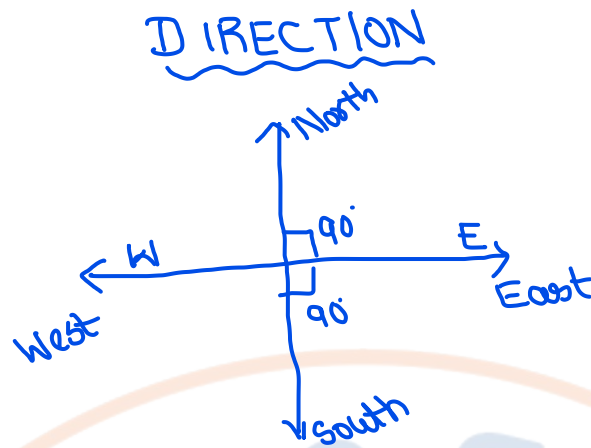


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Key points:

1. Q is to the East of P



2. Q is to the west of P



3. Q is to the north of P



4. Q is to the South of P





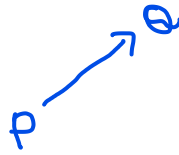
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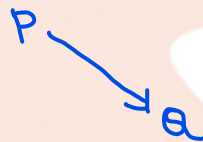
5. Q is to the NE of P



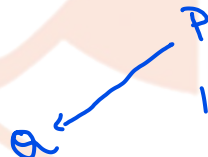
6. Q is to the NW of P



7. Q is to the SE of P

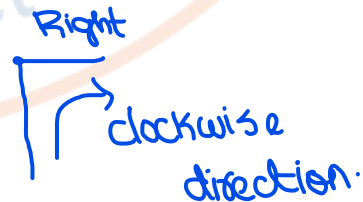


8. Q is to the SW of P



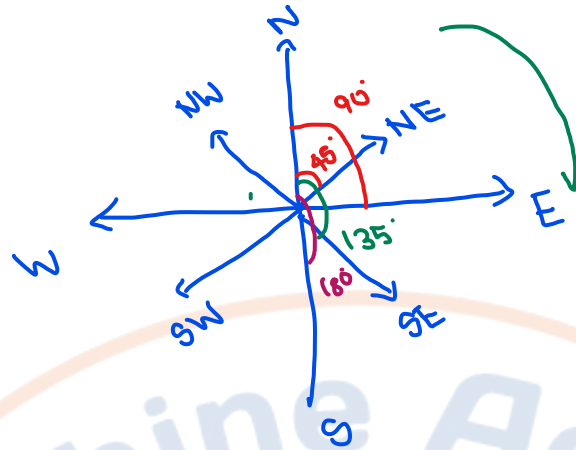
Turns

(Left, Right)





Degree based
Turns



45°

$$45^\circ + 45^\circ = 90^\circ$$

$$90^\circ + 45^\circ = 135^\circ$$

$$135^\circ + 45^\circ = 180^\circ$$

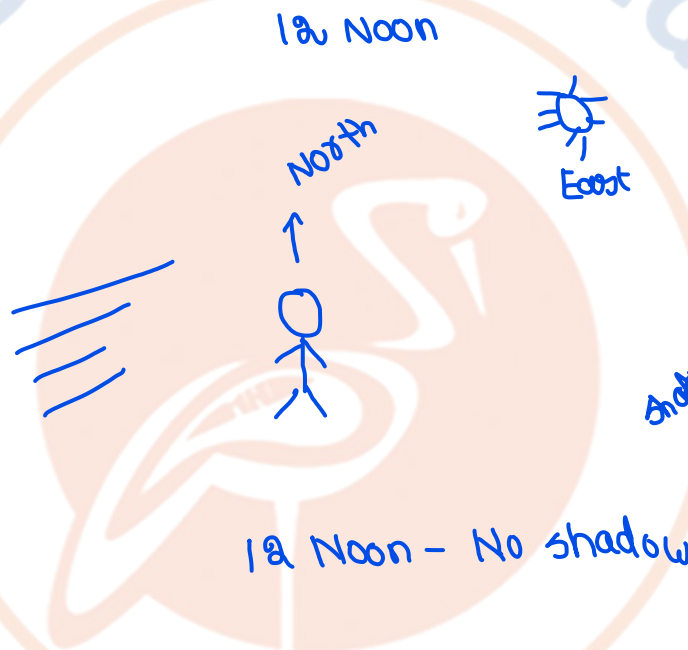
$$180^\circ + 45^\circ = 225^\circ$$

$$225^\circ + 45^\circ = 270^\circ$$

$$270^\circ + 45^\circ = 315^\circ$$

$$315^\circ + 45^\circ = 360^\circ$$

Shadow



Sunrise - East

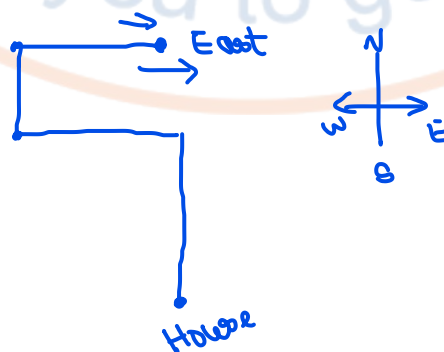
Sunset - West

West

Shadow
East

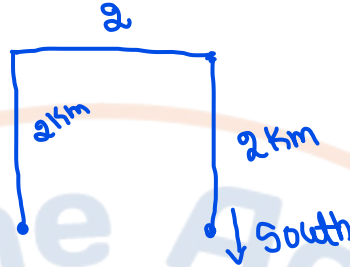
1. Direction:

- Julia started walking towards North direction from her house. After a while she turned left and later on turned right. She further turned right. Which direction is she facing now?

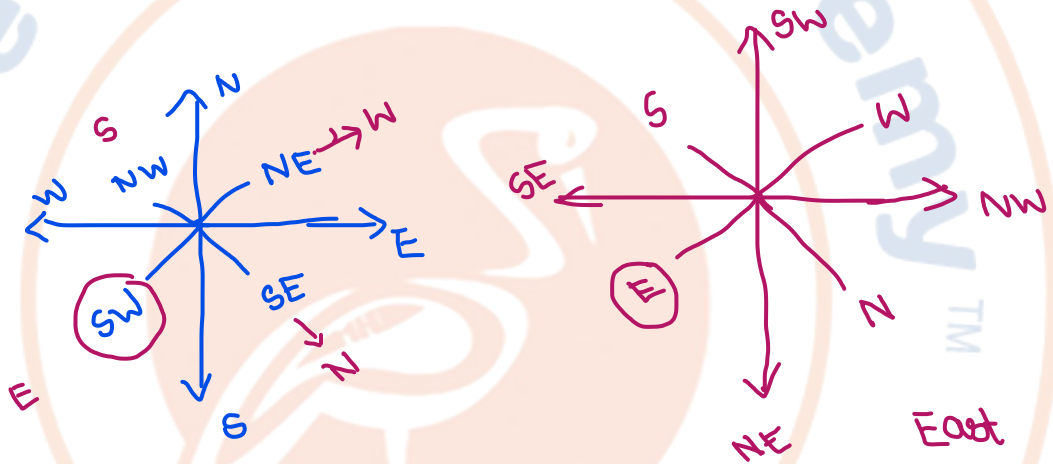




- 2) Lata starts from point A and walks for 2 km towards North, then turns to her right and walks for 2 km, then again turns to her right and walks for another 2 km. In which direction is she facing now?



- 3) If South-East becomes North, North-East becomes West and so on, what will South-West become?



At sunrise, Amit and Deepak are having a conversation standing in front of each other. The shadow of Deepak is formed towards the right hand of Amit. What direction is Deepak facing?





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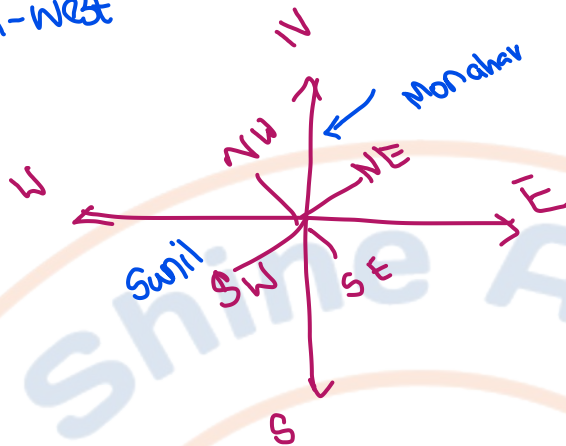
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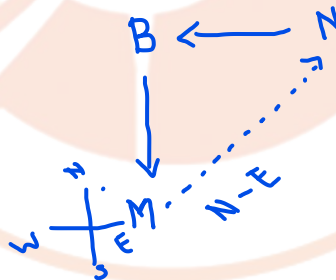
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Sunil and Manohar are playing carrom. If sunil faces towards North-East, then his opponent Manohar faces in which direction?

South-west



If M is in the South of B and B is in the West of N, then in which direction is N from M?

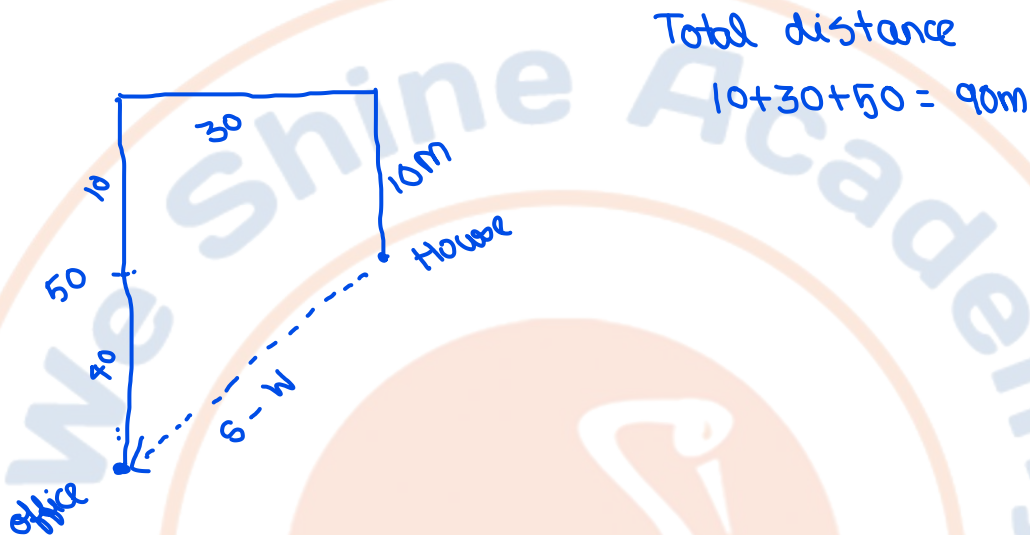




2. Distance

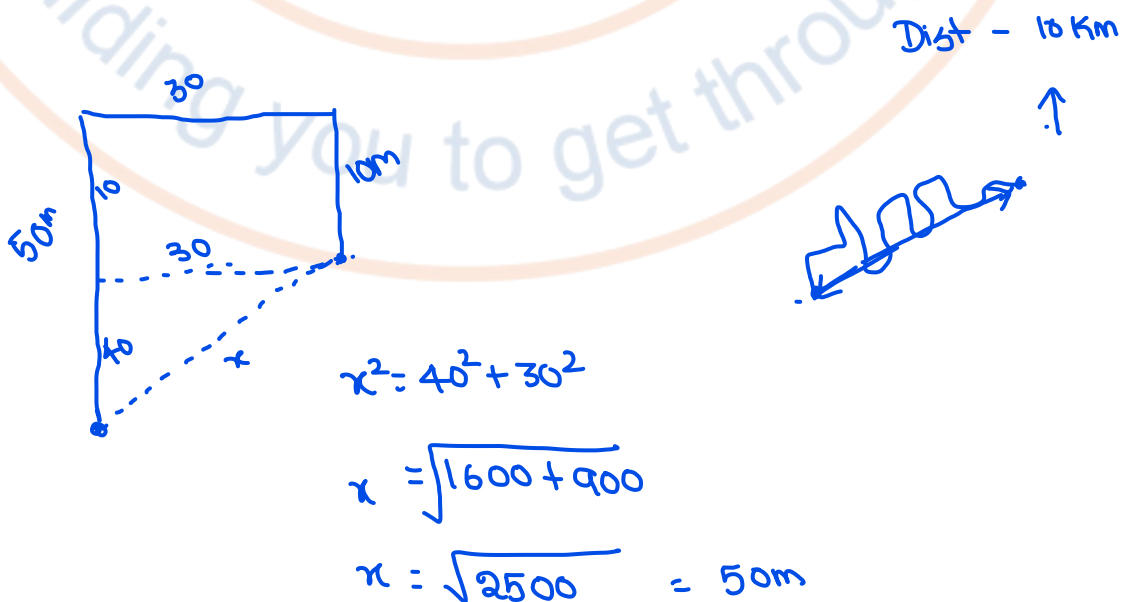
(i) Total distance

Vipul goes Northward 10 m. He turns left and walks 30 m, then again turns left and walks 50 m. How much distance Vipul travelled?



(ii) Shortest / Minimum distance:

Kavi walks Northward upto 10 m. He turns left and walks 30 m. Finally, he turns left and walks 50 m. At what distance Kavi is now from his starting position?





3. Distance & Direction:

Mayank's house faces South. He leaves from the back gate of his house and walks 18 m. Then he turns right and walks 28 m. Then he turns right and walks 35 m. Then he turns left and walks 12 m. He then turns left and walks 17 m. In which direction and how many metres away is he from the original position

