Mahendra's

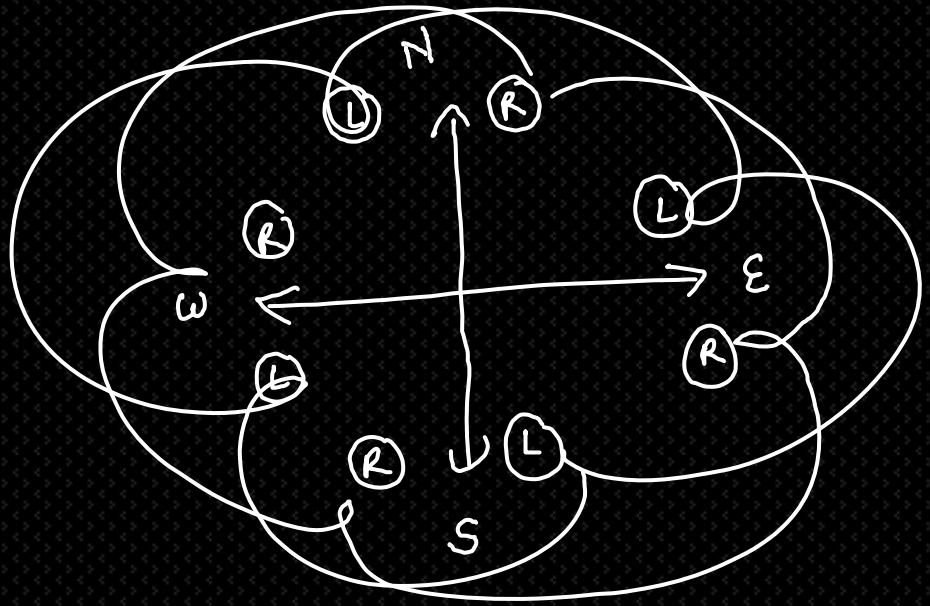
SSC CGL/CPO/CHSL

REASONING

DIRECTION & DISTANCE

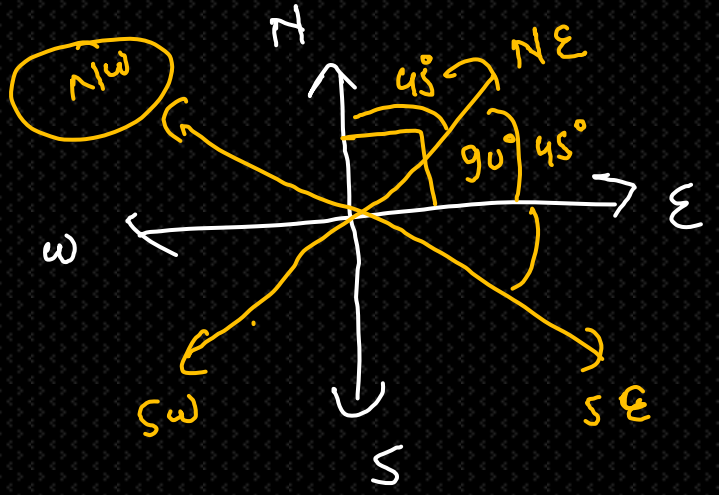
PART-2

LIVE 07:30 PM



R to R → Clk wise

L to L = Anti clkwise



Angle

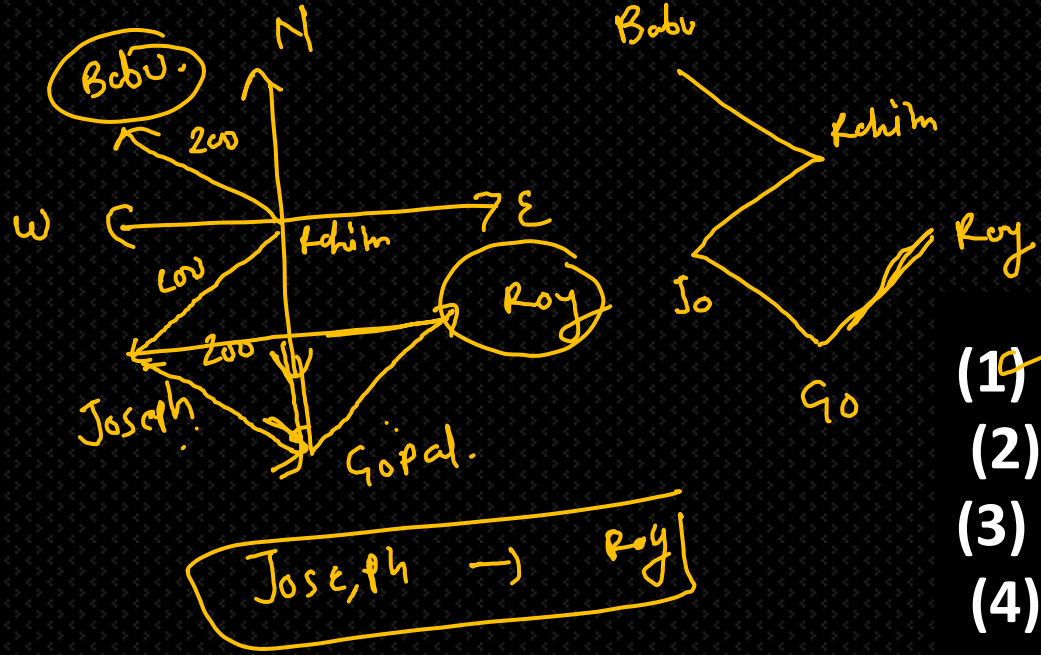
(Bisector)

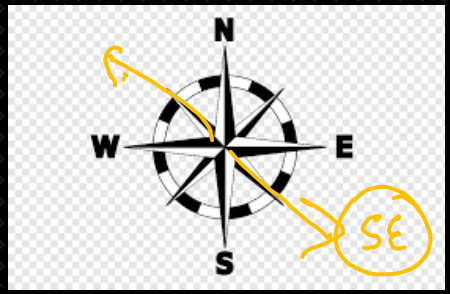
Q7. Babu is the neighbour of Rahim and his house is 200 m north-west. Joseph is the neighbour of Rahim and his house is 200 m south-west. Gopal is the neighbour of Joseph and he lives 200 m south-east. Roy is the neighbour of Gopal and his house is 200 m north-east. House of Roy is in which direction with respect to the house of Babu?

बाबू ,रहीम का पड़ोसी है और उसका घर 200 मीटर उत्तर-पश्चिम में है। जोसेफ रहीम का पड़ोसी है और उसका घर 200 मीटर दक्षिण-पश्चिम में है। गोपाल, जोसेफ का पड़ोसी है और वह 200 मीटर दक्षिण-पूर्व में रहता है। रॉय गोपाल का पड़ोसी है और उसका घर 200 मीटर उत्तर-पूर्व में है। बाबू के घर के सन्दर्भ में राय का घर किस दिशा में है?

(1) South-East
(2) South-West
(3) North
(4) North-east

Q7. Babu is the neighbour of Rahim and his house is 200 m north-west. Joseph is the neighbour of Rahim and his house is 200 m south-west. Gopal is the neighbour of Joseph and he lives 200 m south-east. Roy is the neighbour of Gopal and his house is 200 m north-east. House of Roy is in which direction with respect to the house of Babu?





(1) South-East
(2) South-West
(3) North
(4) North-east

Q8. Rimyaz walked 90 meters north of her house and then turned to the right and walked 60 meters to the market. Then, after walking a few meters to the left market, she reached the post office, from there she again turned to the left and walked 160 meters to the school. If the pneumatic distance between Rimyaz's house and school is 260 meters, then what is the pneumatic distance between market and post office?

रिमियाज़ अपने घर से 90 मीटर उत्तर की ओर चली और फिर दायीं ओर मुड़ी और बाजार की ओर 60 मीटर चली। फिर, कुछ मीटर बाएँ बाज़ार में चलने के बाद, वह डाकघर पहुँची, वहाँ से वह फिर बाईं ओर मुड़ी और 160 मीटर चलकर स्कूल गई। यदि रिमियाज़ के घर और स्कूल के बीच वायवीय दूरी 260 मीटर है, तो बाजार और डाकघर के बीच वायवीय दूरी क्या है?

(1) 180 m
(2) 120 m
(3) 150 m
(4) 100m

Q8. Rimyaz walked 90 meters north of her house and then turned to the right and walked 60 meters to the market. Then, after walking a few meters to the left market, she reached the post office, from there she again turned to the left and walked 160 meters to the school. If the pneumatic distance between Rimyaz's house and school is 260 meters, then what is the pneumatic distance between market and post office?

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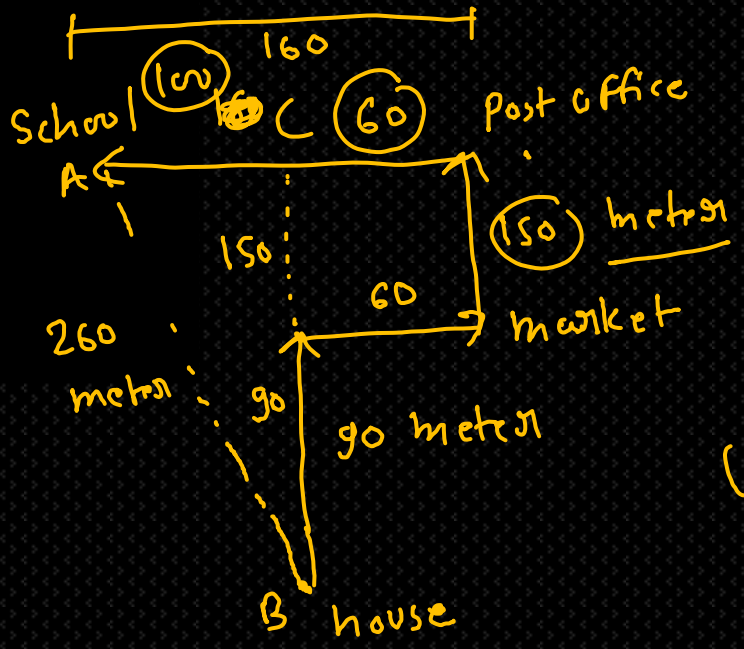
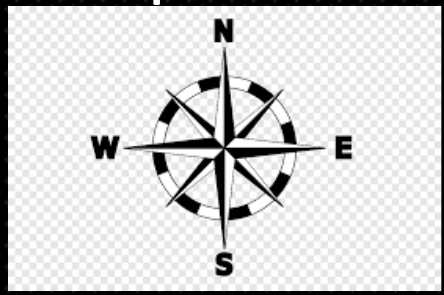




$(AB)^2 = (AC)^2 + (BC)^2$

$(260)^2 = (100)^2 + (BC)^2$

$$(260)^2 - (100)^2 = (BC)^2$$

$$a^2 - b^2 = (a+b)(a-b)$$

$$(260+100)(260-100) = (BC)^2$$

$$\sqrt{360 \times 160} = (BC)$$

$$\sqrt{36 \times 16 \times 100} = (BC)$$

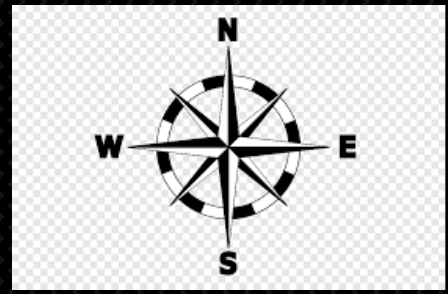
$$6 \times 4 \times 10 = (BC)$$

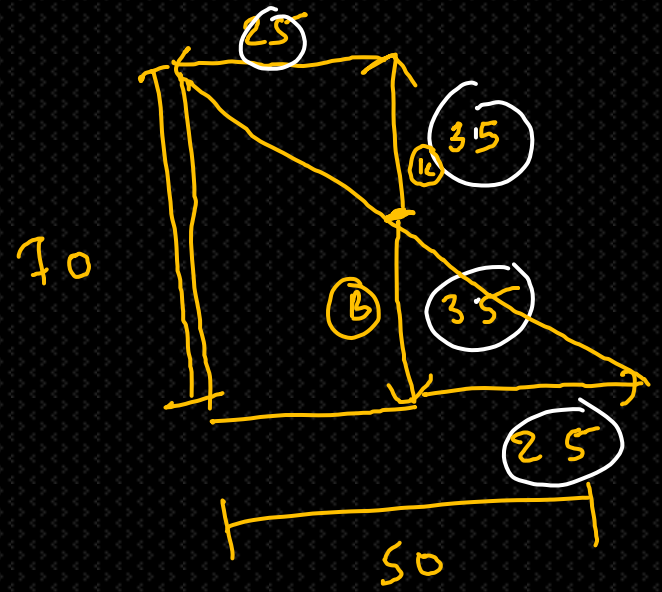
$$240 = BC$$

Q9. Khelsingh and belsingh start walking from the same point and both are 35 km in opposite direction. Let's go. khelsingh turned 25 km to the left. Moves Belsingh turned 25 km to the left. Moves How far (in km) are they from each other? खेलसिंह और बेलसिंह एक ही बिंदु से चलना शुरू करते हैं और दोनों विपरीत दिशा में 35 किमी की दूरी पर हैं। चल दर। खेलसिंह 25 किमी बायीं ओर मुड़ा। बेलसिंह बाईं ओर 25 किमी चलता है। चालें वे एक दूसरे से कितनी दूर (किमी में) हैं?

(1) 25√6
(2) 10√74
(3) 8√35
(4) 10√70

Q9. Khelsingh and belsingh start walking from the same point and both are 35 km in opposite direction. Let's go. khelsingh turned 25 km to the left. Moves Belsingh turned 25 km to the left. Moves How far (in km) are they from each other?





$\sqrt{(70)^2+(50)^2}$

$\sqrt{4900+2500}$

$\sqrt{74\times100}$

$10\sqrt{74}$

(1) $25\sqrt{6}$ km

(2) $10\sqrt{74}$ km

(3) $8\sqrt{35}$ km

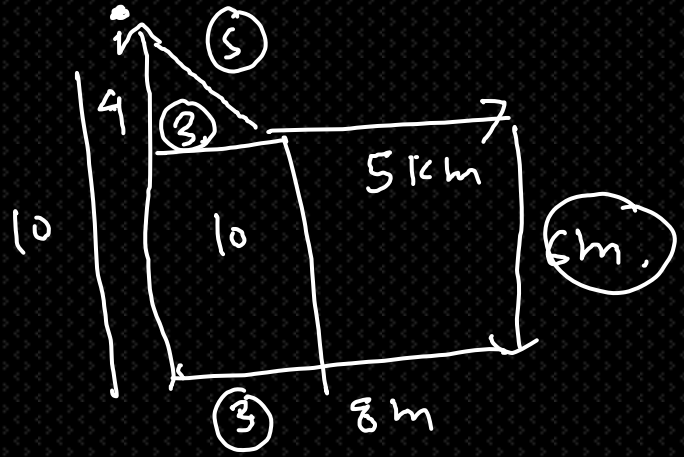
(4) $10\sqrt{70}$ km.

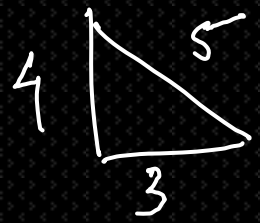
Q10. A farmer is preparing his farm. He takes his tractor out of the garage and walks 5 km to the east. Drives From there turn right and 6 km. Drives Then, he turns right and walks 8 km. Drives Then, when his tractor goes bad, he turns right and walks 10 km. Drives What is the shortest distance between his moving place and the garage?

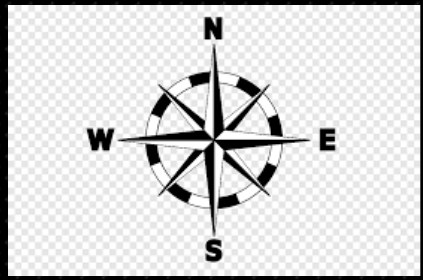
एक किसान अपने खेत की तैयारी कर रहा है। वह अपने ट्रैक्टर को गैरेज से बाहर निकालता है और पूर्व की ओर 5 किमी चलता है। वहां से ड्राइव दाएं मुड़ते हैं और 6 किमी। ड्राइव करता है फिर, वह दायें मुड़ता है और 8 किमी चलता है। ड्राइव करता है फिर, जब उसका ट्रैक्टर खराब हो जाता है, तो वह दायें मुड़ता है और 10 किमी चलता है। ड्राइव उसके चलने की जगह और गैरेज के बीच सबसे कम दूरी कितनी है?

(1) 9 km
(2) 6 km
(3) 5 km
(4) 2 km

Q10. A farmer is preparing his farm. He takes his tractor out of the garage and walks 5 km to the east. Drives From there turn right and 6 km. Drives Then, he turns right and walks 8 km. Drives Then, when his tractor goes bad, he turns right and walks 10 km. Drives What is the shortest distance between his moving place and the garage?



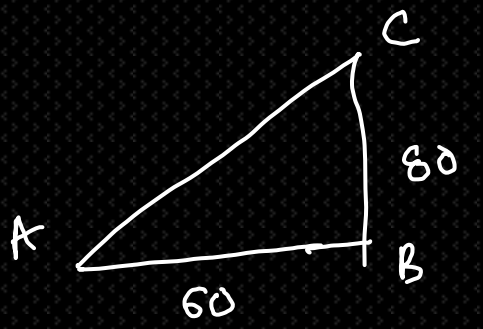




(1) 9 km
(2) 6 km
(3) 5 km
(4) 2 km

Q11. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not there. From there he went 100 metres to his north before meeting his father in a street. Now how far he is from his starting point? एक बच्चा अपने पिता की तलाश में है। वह अपनी दाहिनी ओर मुड़ने से पहले पूर्व में 90 मीटर चला गया। वह फिर से दाहिनी ओर मुड़ने से पहले 20 मीटर चला गया और इस बिंदु से 30 मीटर की दूरी पर अपने चाचा के स्थान पर अपने पिता की तलाश करने लगा। उसके पिता वहां नहीं थे। वहाँ से वह 100 मीटर उत्तर की ओर चला और एक गली में अपने पिता से मिलने गया। अब वह अपने आरंभिक बिंदु से कितनी दूर है?

(A) 80 m (B) 100 m (C) 260 m (D) 140 m



$$(AC)^2 = (AB)^2 + (BC)^2$$

$$= 36\text{cm} + 64\text{cm}$$

$$= 10{,}000 = \boxed{100\text{ m}}$$ Ans

Q11. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not there. From there he went 100 metres to his north before meeting his father in a street. Now how far he is from his starting point?

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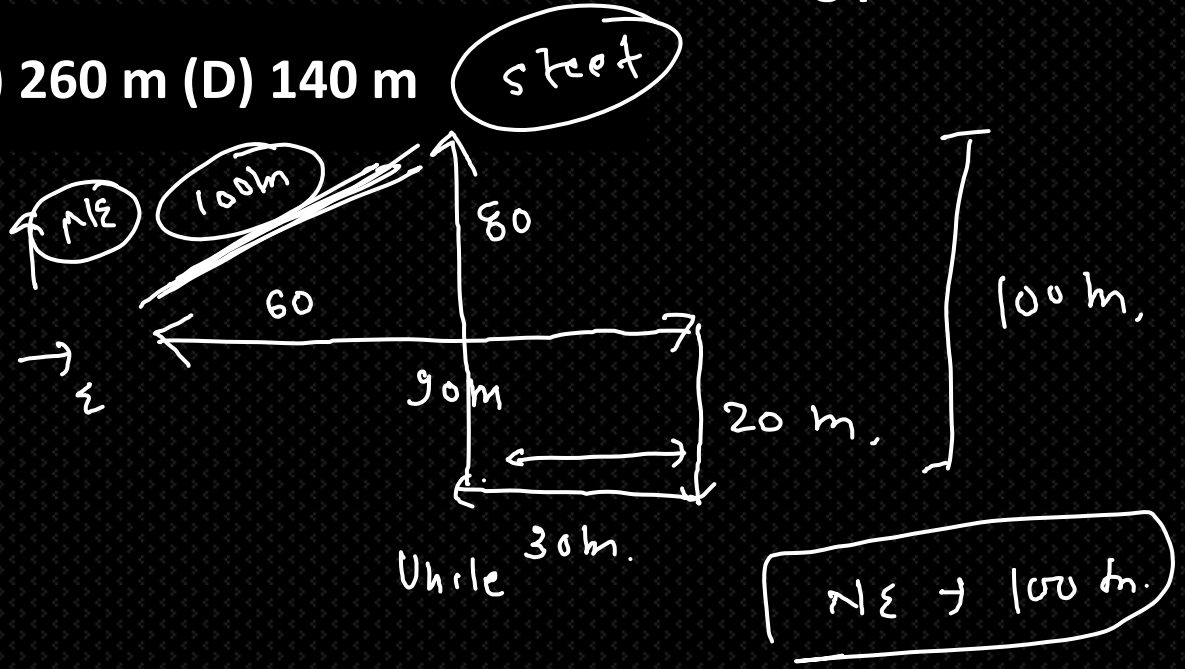


Q12. A watch reads 4:30. If the minute hand points East in which direction will the hour hand point? एक घड़ी 4:30 पढ़ती है। यदि मिनट की सुई पूर्व की ओर इशारा करती है तो घंटे की सुई किस दिशा में इंगित करेगी?

A) North-East

B) North

C) South-West

D) south

(1) North

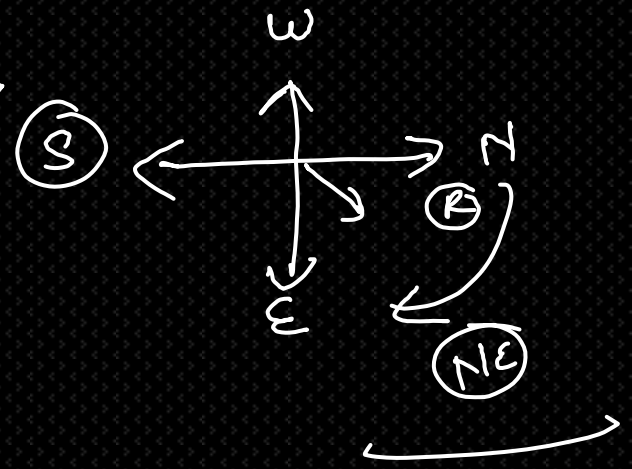
(2) South

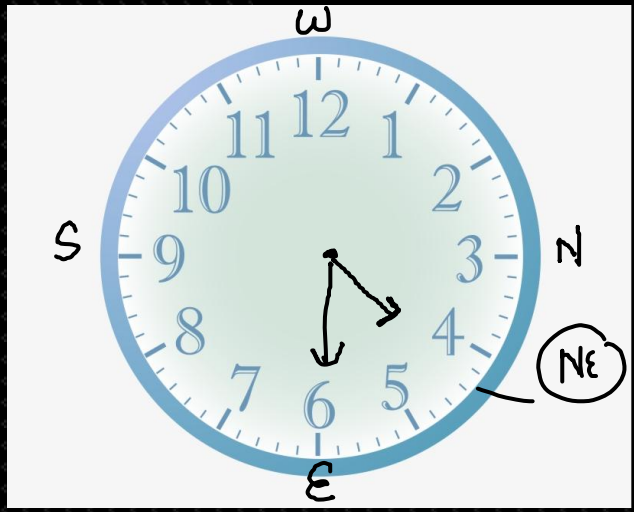
(3) East

(4) West

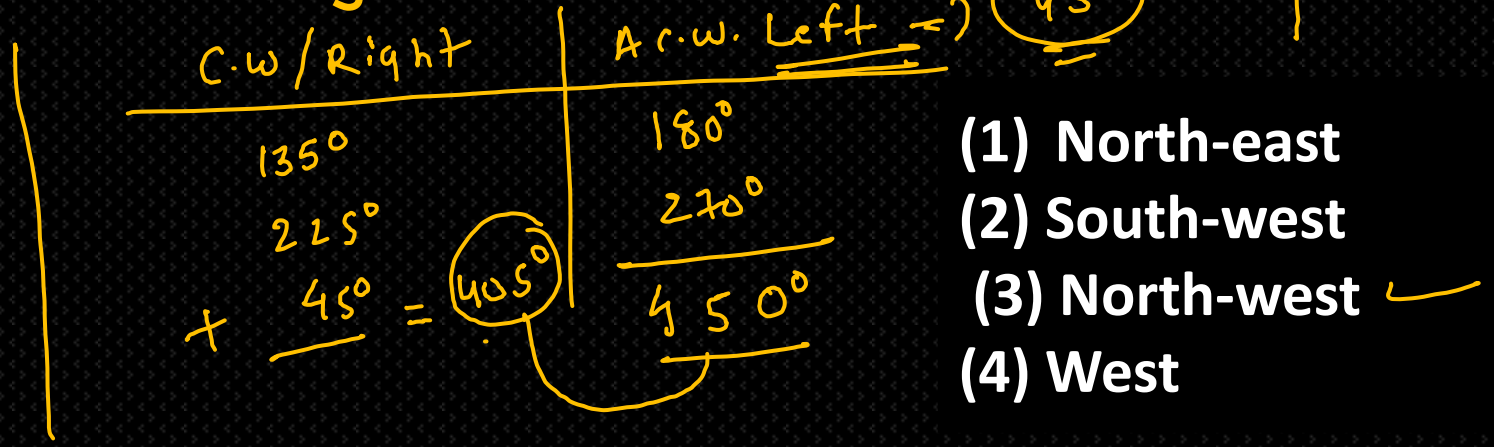
Q12. A watch reads 4:30. If the minute hand points East in which direction will the hour hand point? एक घड़ी 4:30 पढ़ती है। यदि मिनट की सुई पूर्व की ओर इशारा करती है तो घंटे की सुई किस दिशा में इंगित करेगी?

A) North-East
B) North
C) South-West
D) south





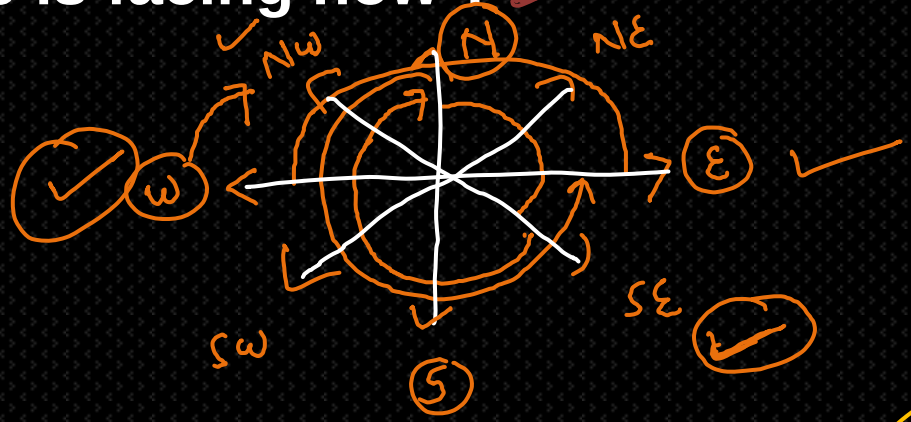
Q13. Mahesh is facing North. He turns 135^0 in clockwise direction and another 225^0 in the same direction and then 270^0 in the anticlockwise direction He turns 180^0 in left direction. At last he turn 45^0 right direction. In which direction he is facing now ? महेश का मुख उत्तर की ओर है। वह दक्षिणावर्त दिशा में 135^0 और उसी दिशा में 225^0 मुड़ता है और फिर 270^0 वामावर्त दिशा में वह बाईं दिशा में 180^0 मुड़ता है। अंत में वह 45^0 दाहिनी दिशा में मुड़ता है। अब उसका मुख किस दिशा में है?

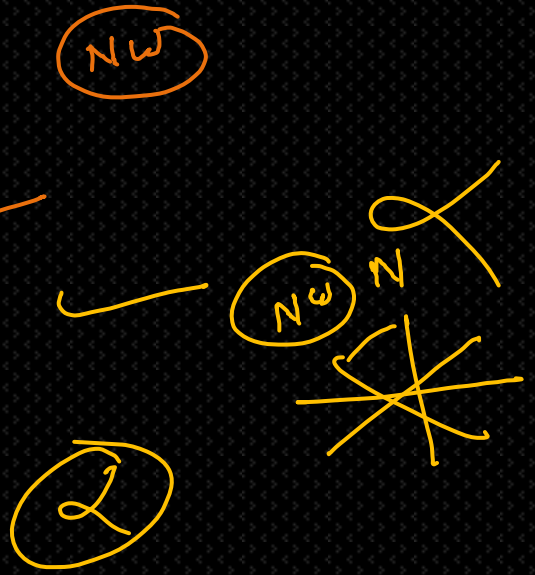


(1) North-east
(2) South-west
(3) North-west
(4) West

Q13. Mahesh is facing North. He turns 135^0 in clockwise direction and another 225^0 in the same direction and then 270^0 in the anticlockwise direction He turns 180^0 in left direction. At last he turn 45^0 right direction. In which direction he is facing now ?

(1) North
(2) South
(3) East
(4) West





Q14. Mahobia is facing North east. He turns 157^0 in anticlockwise direction and another 115^0 in the clockwise direction and then 69^0 in the anticlockwise direction He turns 123^0 in right direction. At last he turn 34^0 right direction. In which direction he is facing now ? महोबिया का मुख उत्तर पूर्व की ओर है। वह 157^0 वामावर्त दिशा में और दूसरा 115^0 दक्षिणावर्त दिशा में और फिर 69^0 वामावर्त दिशा में मुड़ता है वह 123^0 [redacted] दिशा में मुड़ता है। अंत में वह 34^0 दाहिनी दिशा में मुड़ता है। अब उसका मुख किस दिशा में है?

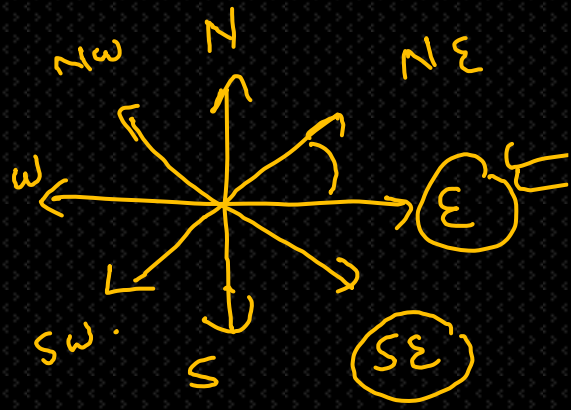
(1) North
(2) South
(3) East
(4) West

Q14. Mahobia is facing North. He turns 157^0 in anticlockwise direction and another 115^0 in the clockwise direction and then 69^0 in the anticlockwise direction He turns 123^0 in right direction. At last he turn 34^0 right direction. In which direction he is facing now ?

(1) North
(2) South
(3) East
(4) West

SE

Left/Anti'	Right/clkwise
157^0	115^0
69^0	123^0
	34^0
226^0	272^0



$272^0 - 226^0 = 46^0$

45^0