Geometry

(Line and Angles)

1. The measures of an angle is 14° less than the measure of its complementary angle then find the value of angle?

A] 44°

B] 34°

C] 52°

D] 38°

2. The measure of the supplementary of an angle is 10° more than four times of original angle. Find the complementary angle of that particular angle?

A] 26°

B] 34°

C] 56°

D] 70°

3. The supplementary angle of angle K is $(12x+4)°$ and the complement of angle K measures $6x°$. What is K?

A] 4°

B] 4.2°

C] 14.3°

D] 6°

4. x and y are two supplementary angles. If supplementary angle of x is equal to half the complementary of y then find x:y?

A] 5:3

B] 3:1

C] 5:1

D] 2:3

5. The measure of supplement of $\angle$ A is 40° larger than twice the measure of the complement of angle of A. What is the sum in degrees, of the measures of the supplement and complement of $\angle$ A?

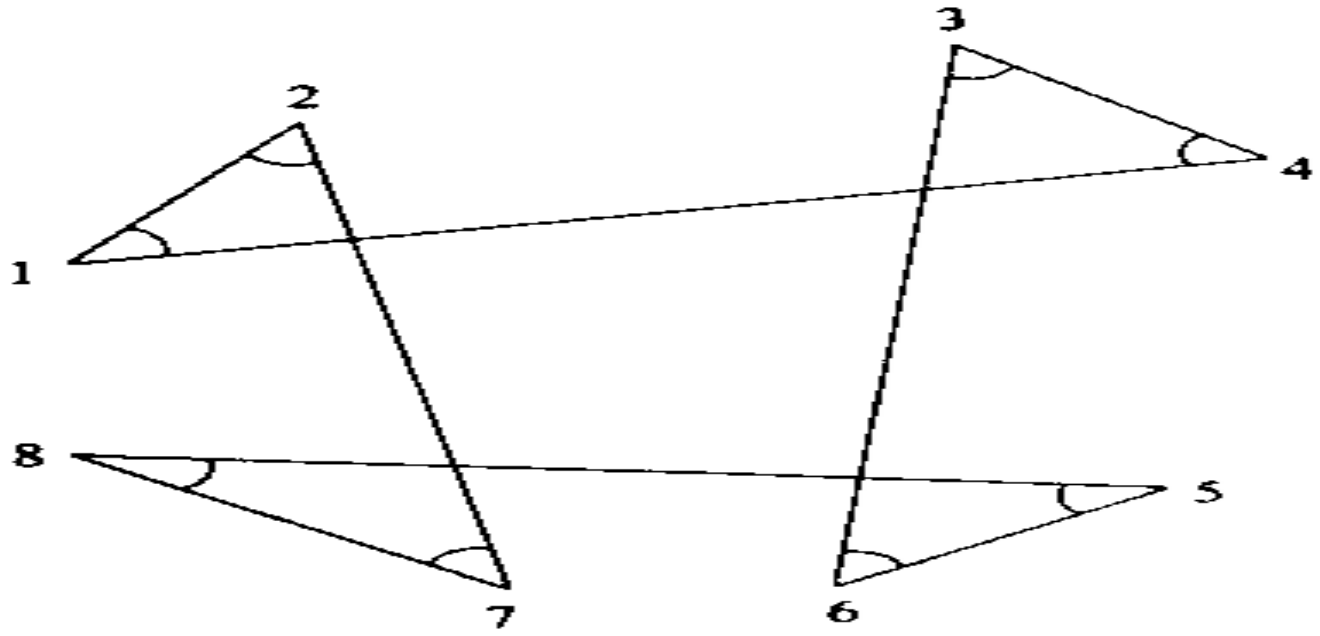
A] 190°

B] 140°

C] 175°

D] 230°

6. Angles are shown in the figure. What is value of $\angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6 + \angle 7 + \angle 8$



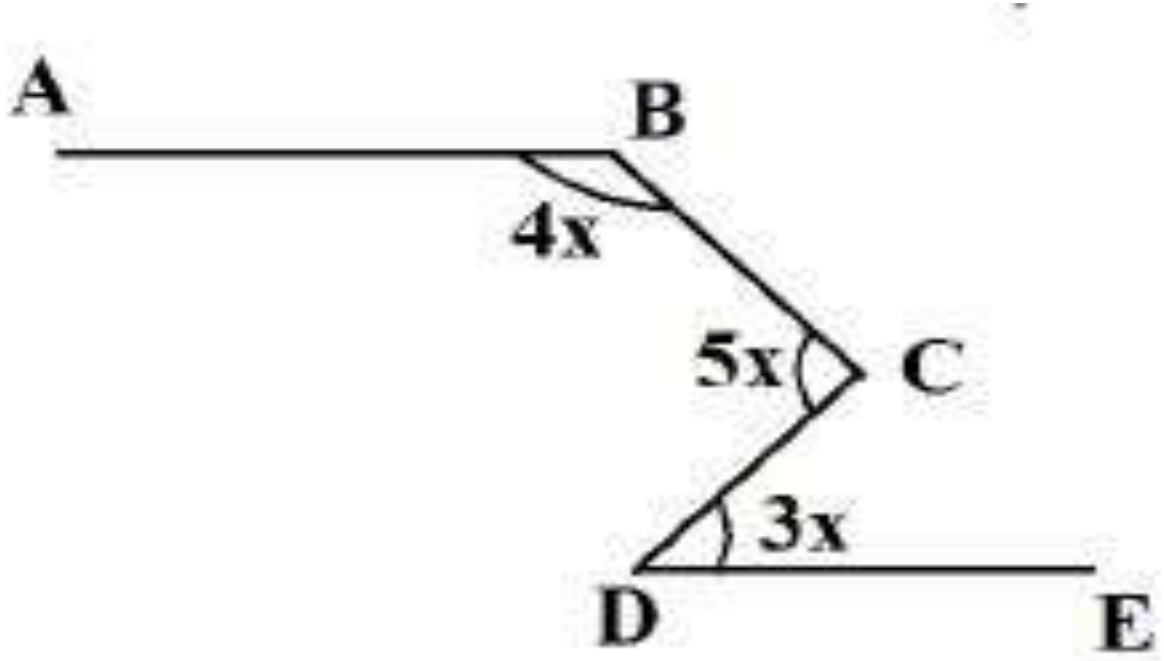
A] 240°

B] 360°

C] 540°

D] 720°

7. In the shown fig AB||DE find supplementary angle of x.



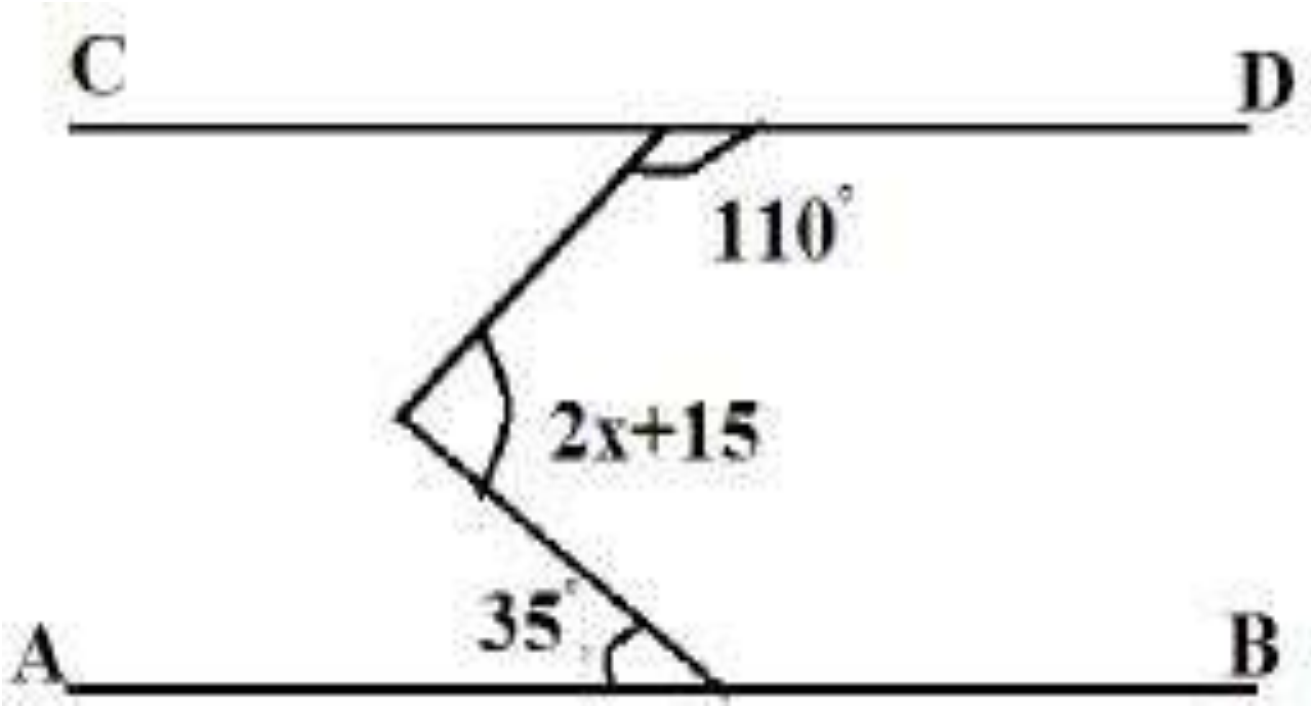
A] 120°

B] 150°

C] 140°

D] 125°

8. In the given fig below AB||CD, find x?



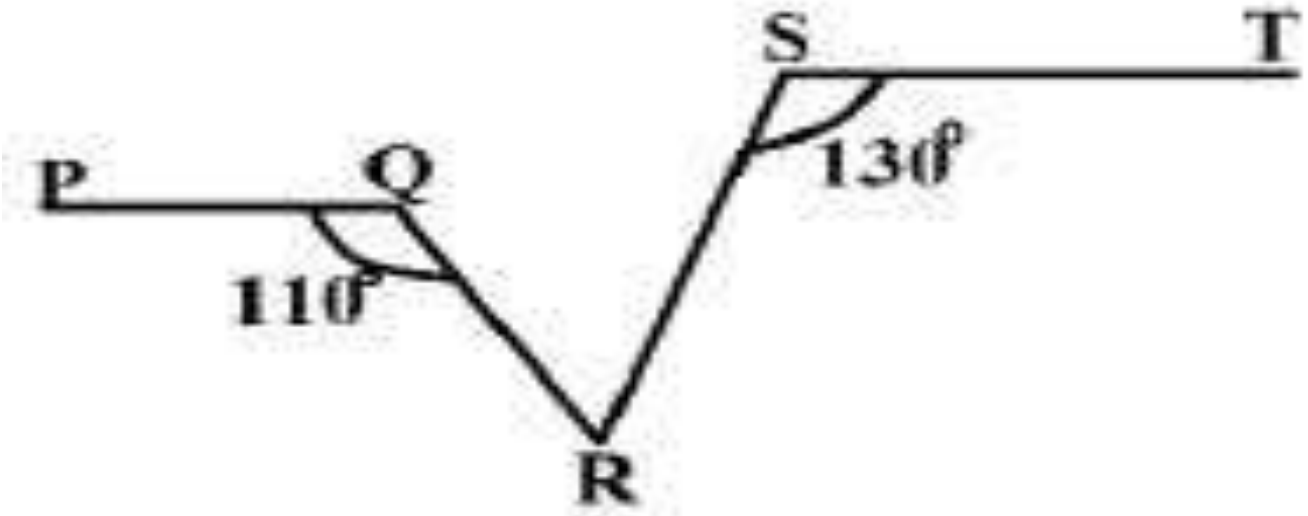
A] 45°

B] 40°

C] 35°

D] 67.5°

9. In the fig., if PQ||ST, $\angle$PQR=110° and $\angle$RST=130°. Find $\angle$QRS?



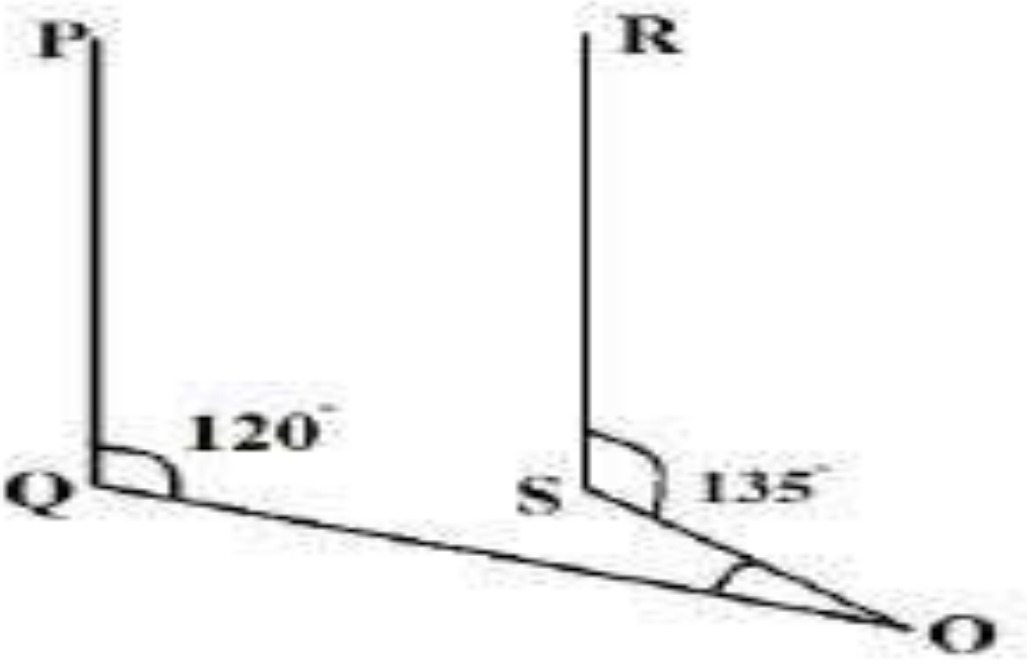
A] 50°

B] 60°

C] 40°

D] 45°

10. In the given fig PQ||RS, then find $\angle$QOS?



A] 30°

B] 15°

C] 20°

D] 10°

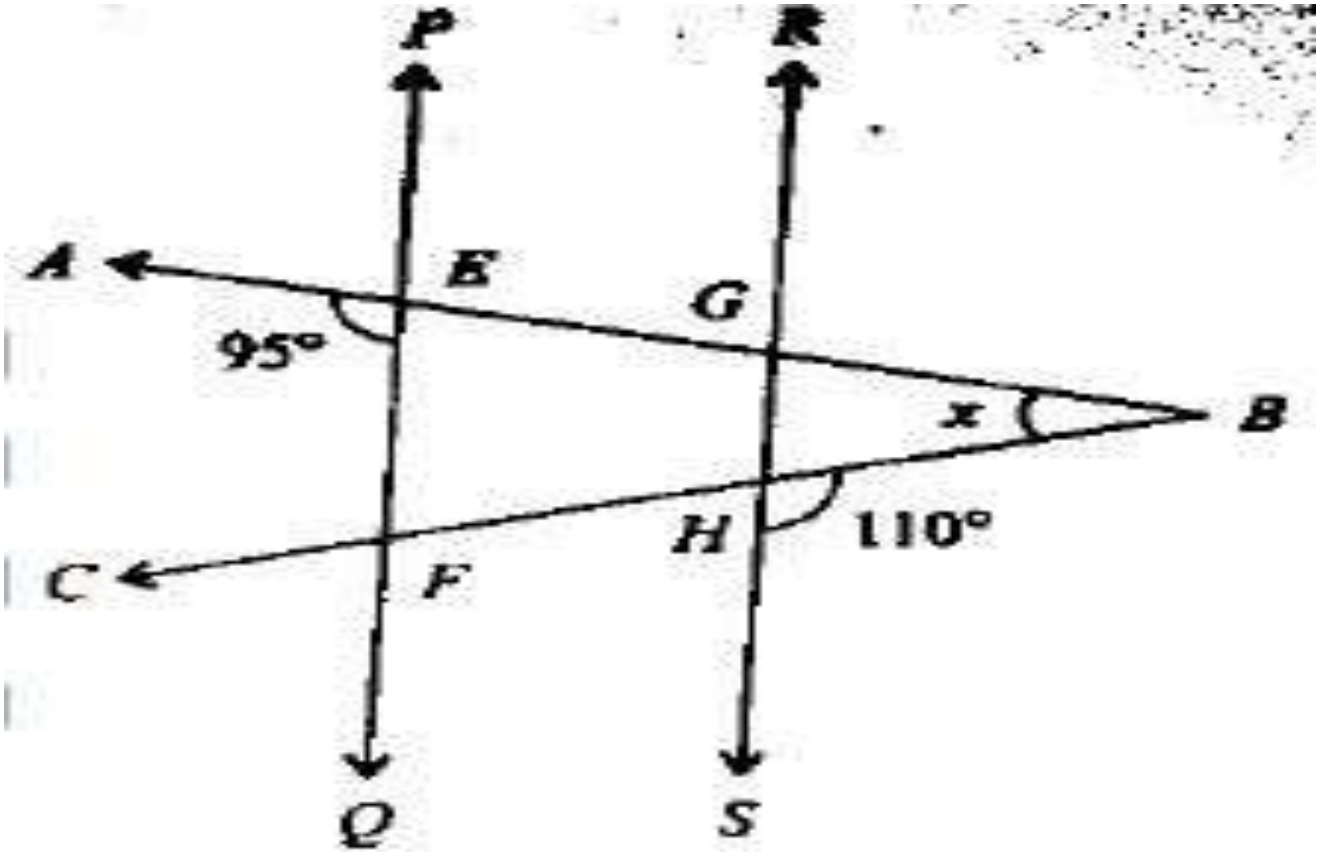
11. In the given figure PQ||RS, ∠AEF = 95°, ∠BHS = 110°and ∠ABC = x° Then what is the value of x?

A] 15°

B] 25°

C] 30°

D] 35°



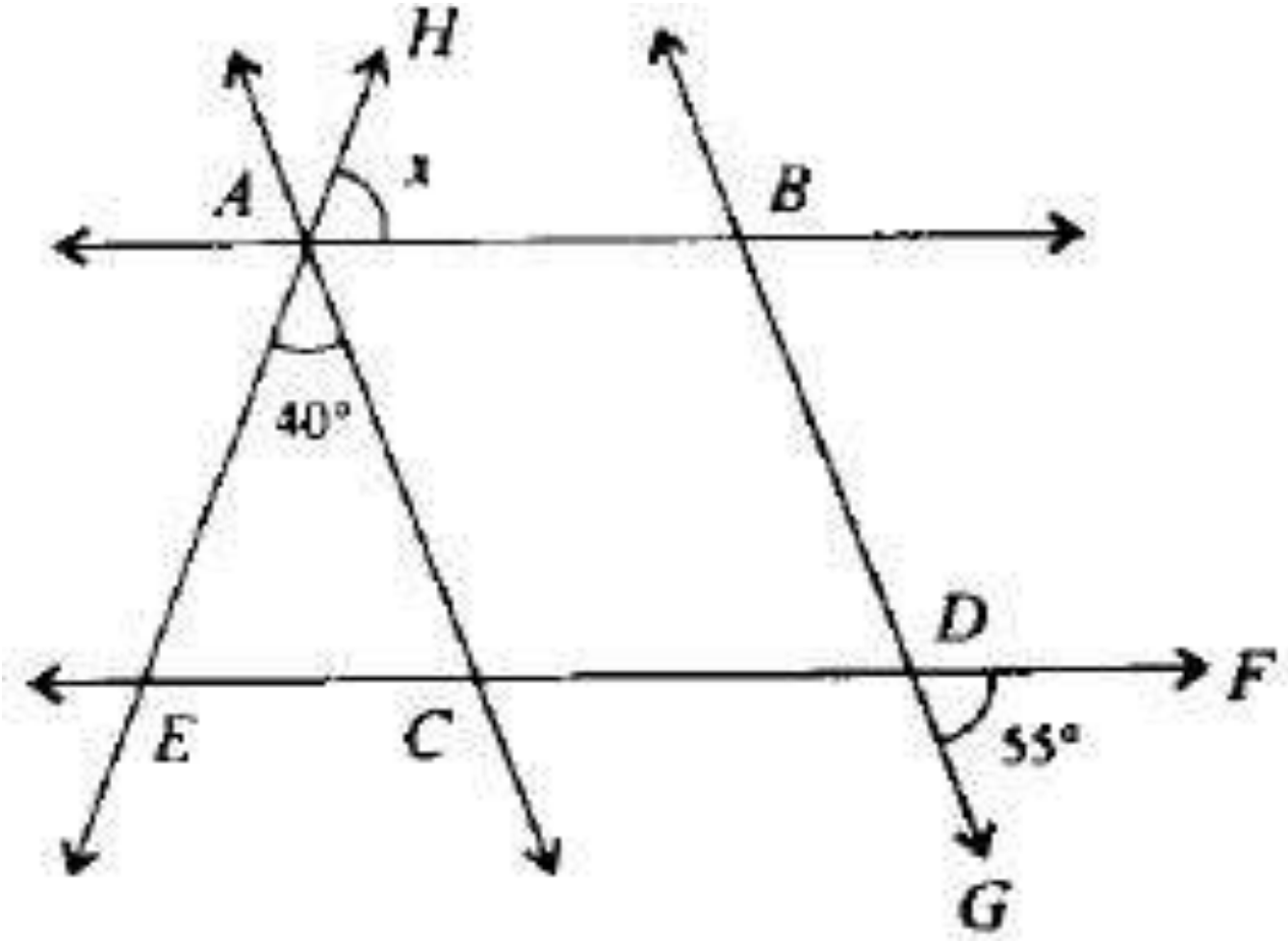
12. In the given figure AB is parallel to CD and AC is parallel to BD. If ∠EAC = 40°, ∠FDG = 55°, ∠HAB= x° then what is the value of x?

A] 85°

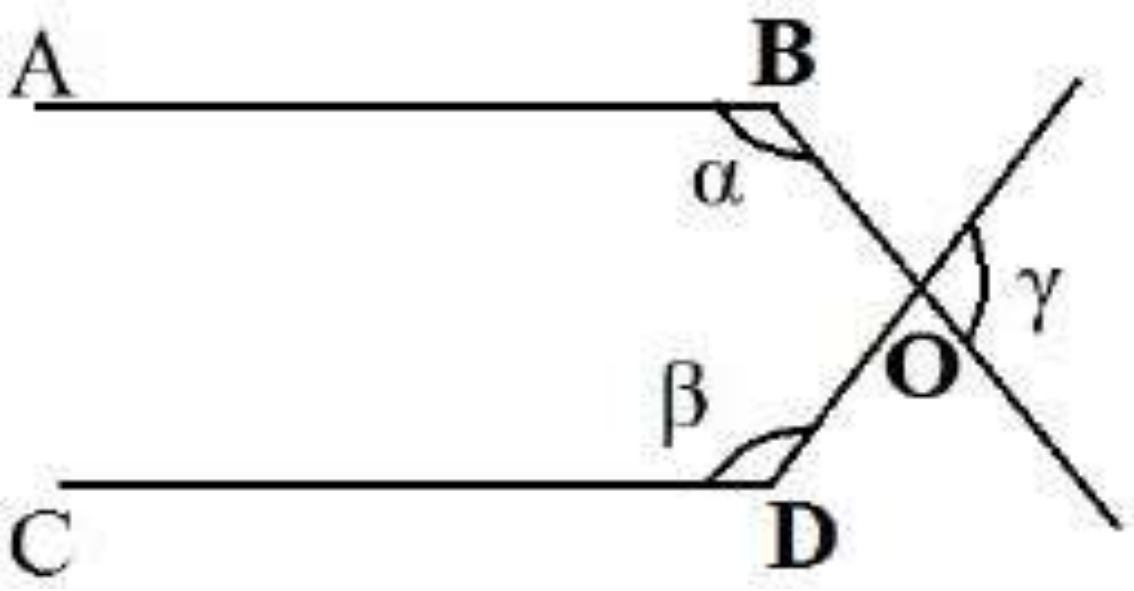
B] 80°

C] 75°

D] 65°



13. If AB||CD then find the value of α+β+γ?



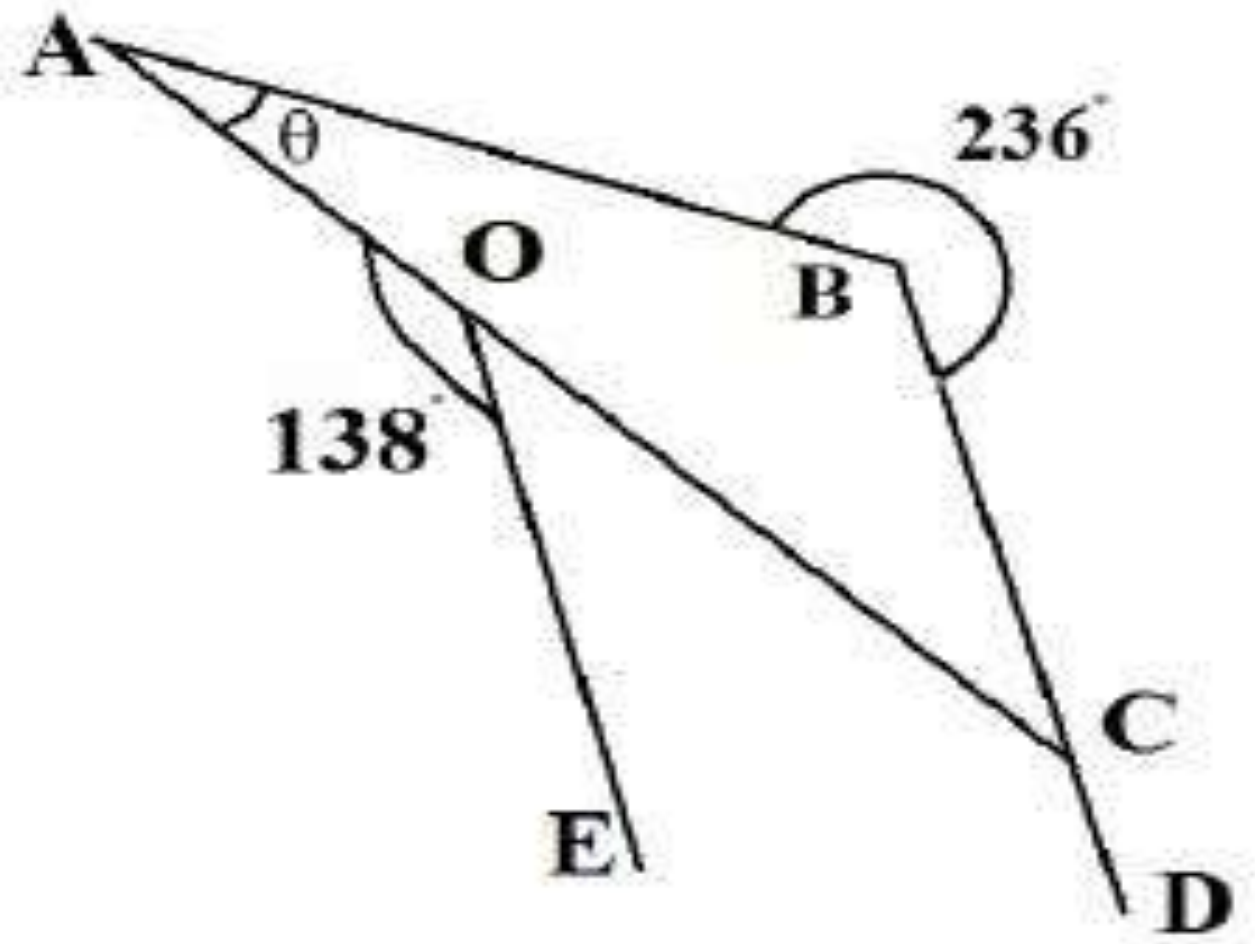
A] 180°

B] 270°

C] 360°

D] 240°

14. In the shown fig OE||BD, find the value θ?



A] 19°

B] 12°

C] 14°

D] 15°

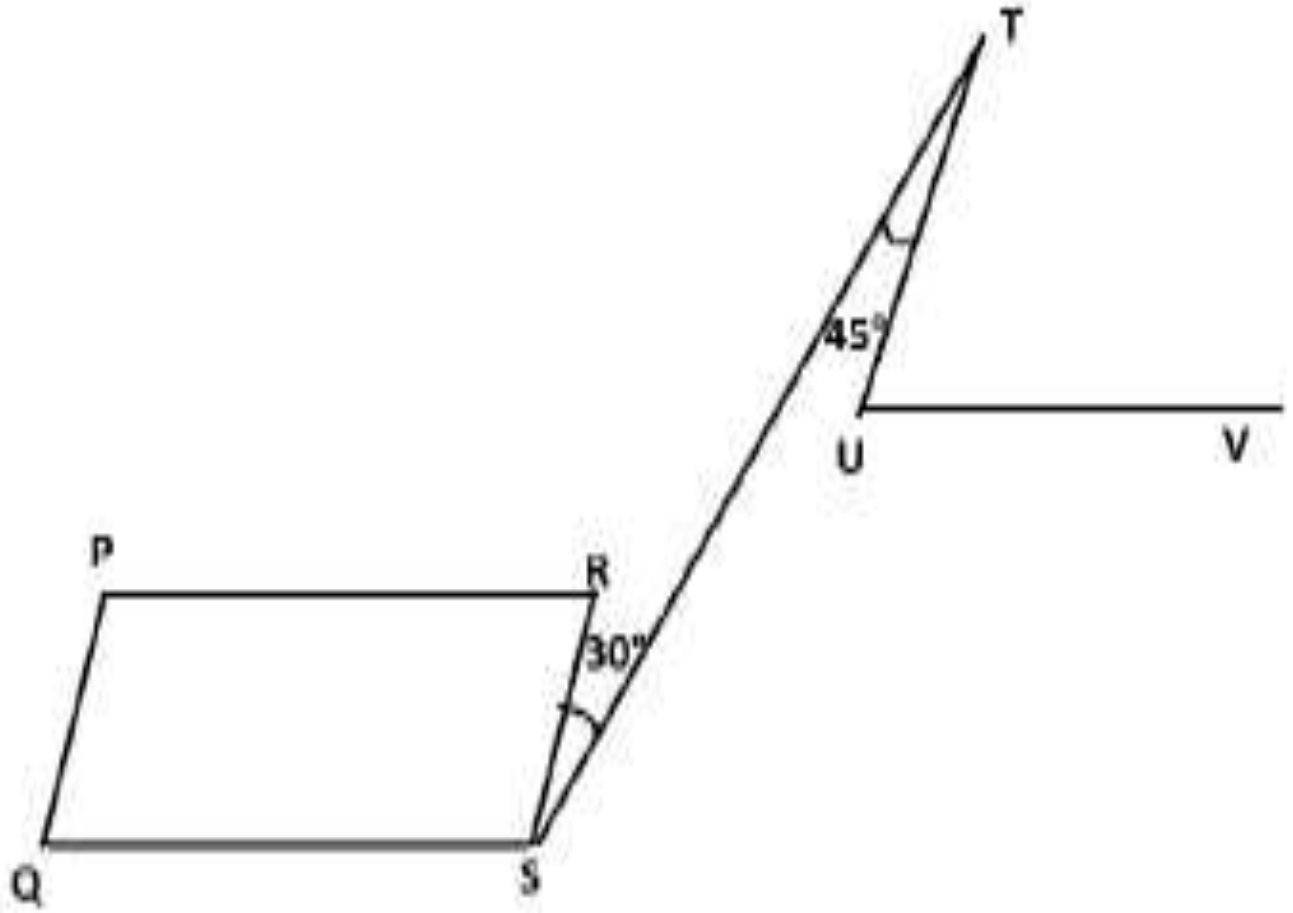
15. In the given fig, PR || UV and PQ || RS, ∠RST=30° ∠STU=45° . Find the value of ∠QPR+∠TUV?

A] 180°

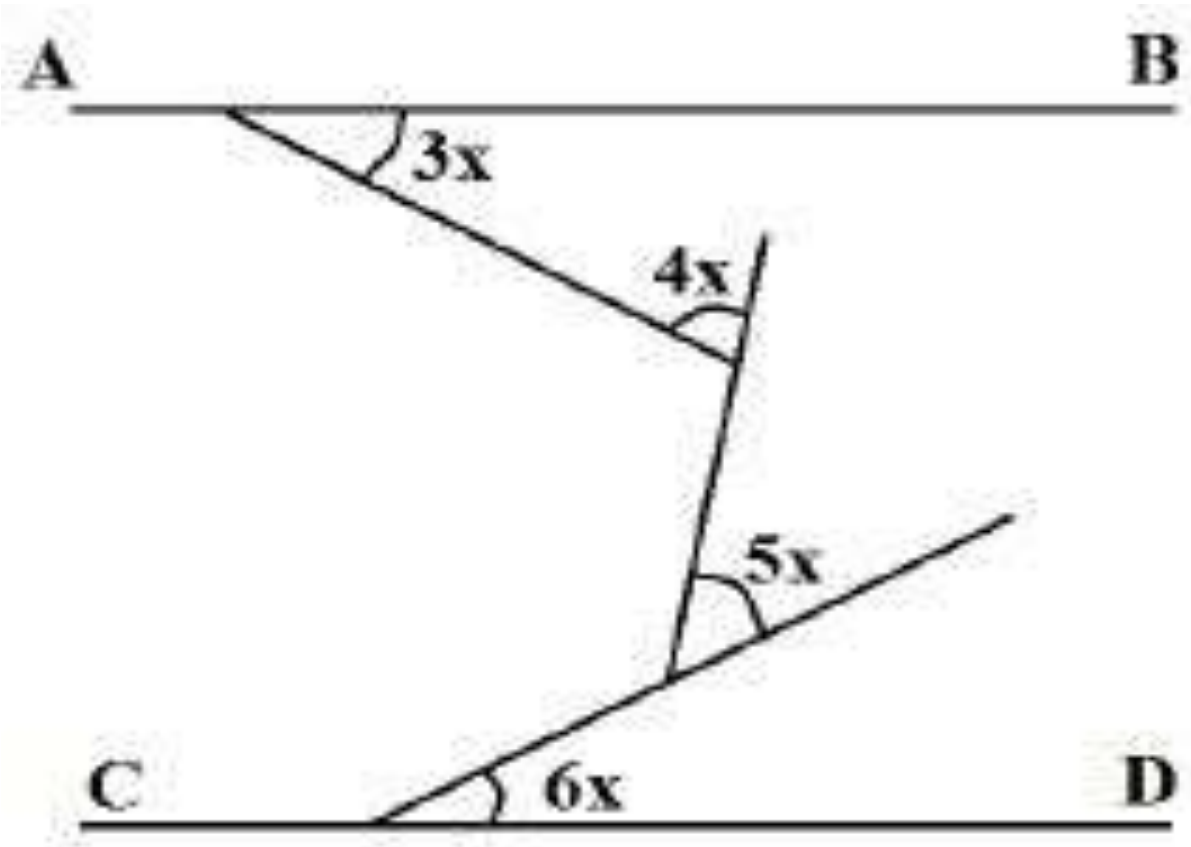
B] 195°

C] 205°

D] 165°



16. In the given fig AB||CD find the value of x?



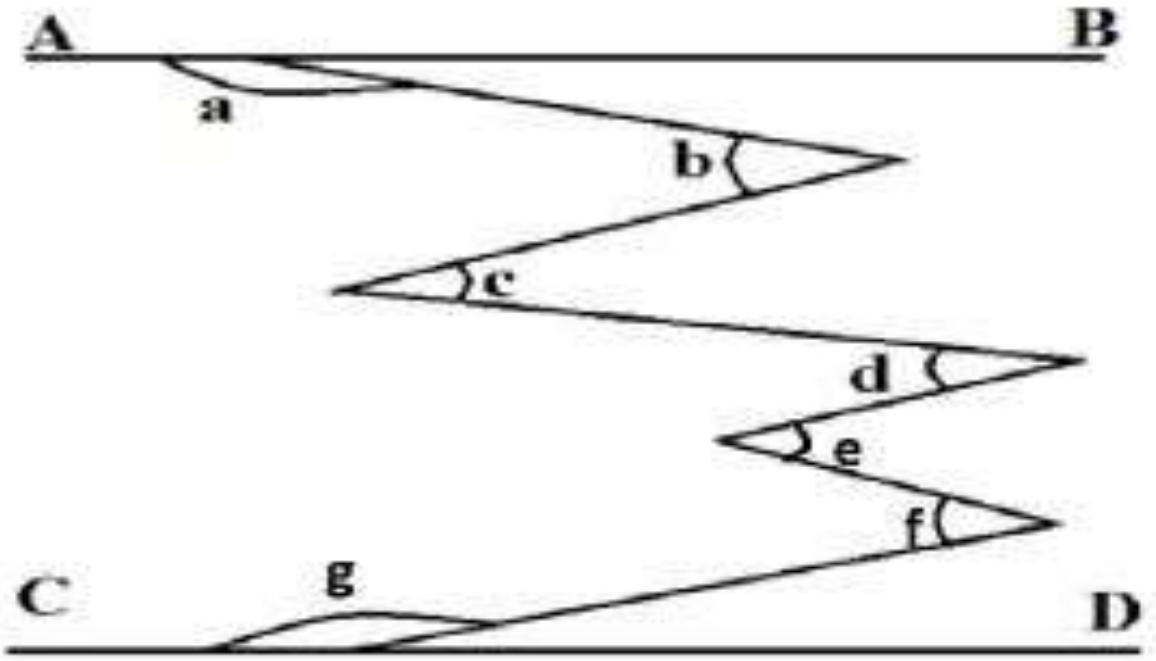
A] 5°

B] 10°

C] 20°

D] 12°

17. In the given fig AB||CD then choose correct one:



A] 360°+c+e=b+d+f+a+g

B] a+c+e+g=b+d+f

C] 180°+b+d+f=a+c+e+g

D] None of these

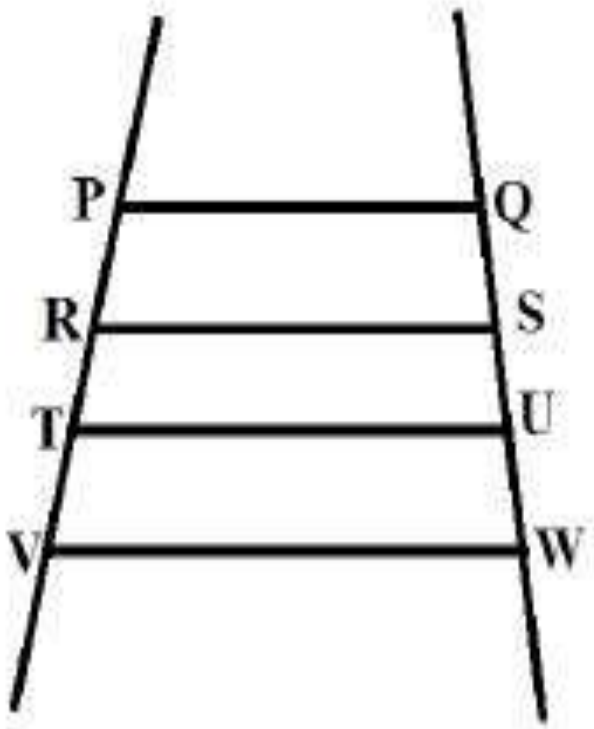
18. In the fig given below PQ||RS||TU||VW, PR=20cm, RT=44cm, TV=32cm, QW=84cm then find QS?

A] 15cm

B] 17.5cm

C] 22.5cm

D] 12.5cm



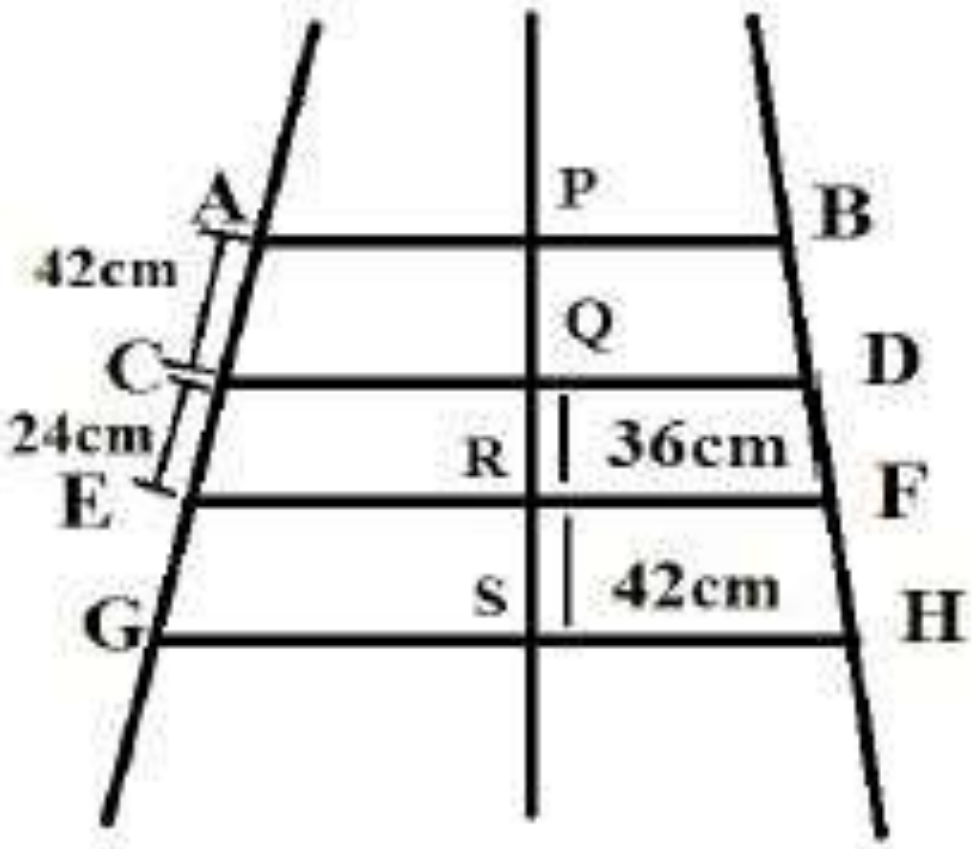
19. In the given fig AB||CD||EF||GH, if BH=188cm AC=42cm, CE=24cm, QR=36cm and RS=42cm find the value of EG+PQ+DF?

A] 141

B] 139

C] 147

D] 135



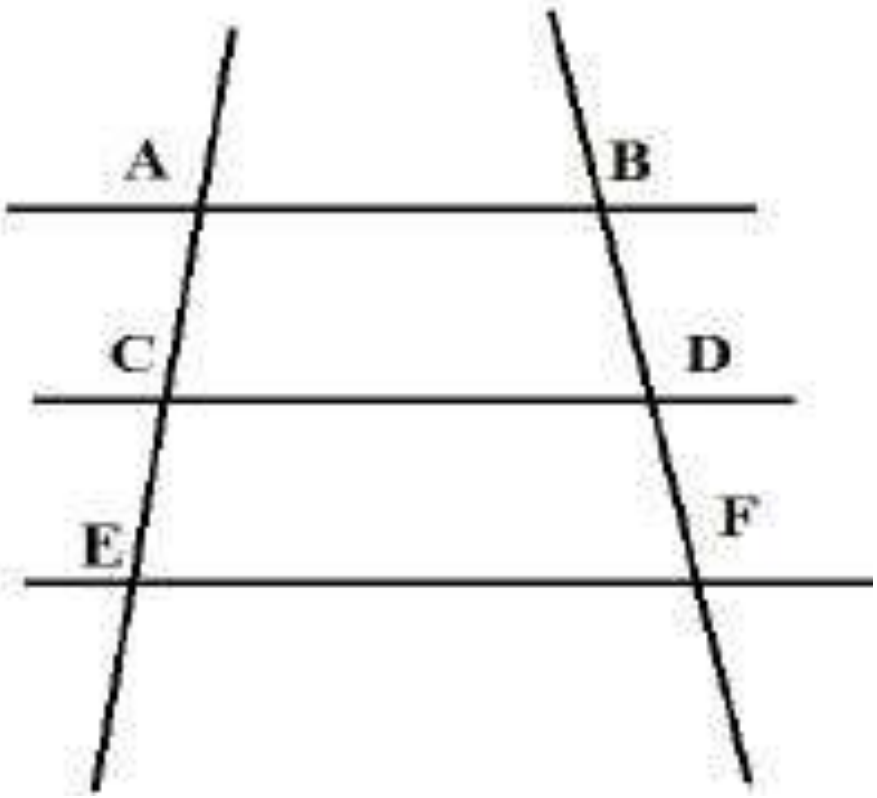
20. In the given fig below AB||CD||EF, if AB=29cm, EF=57cm, AC= (3/4)CE and BD is x cm less than DF then find CD=?

A] 41cm

B] 43cm

C] 45cm

D] 40.5cm



21. In the given fig AB||CD||EF||GH||IJ, find the value of x+y?

A] 64

B] 63.5

C] 59

D] 67.5