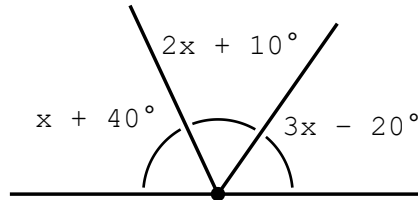


Geometry: 2D Shapes & Angles: Hard Practice

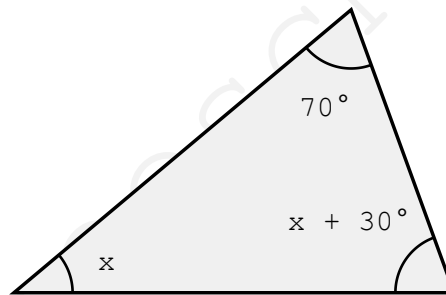
Paper 3

Q1. Work out the value of x .



- A. 15° B. 20° C. 25° D. 30° E. 35°

Q2. Work out the value of x in this triangle.

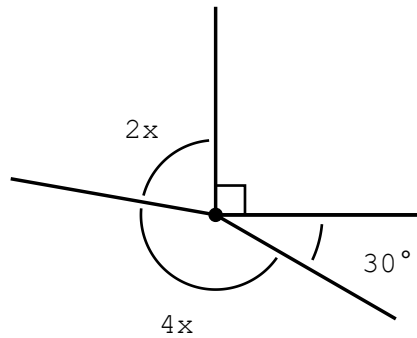


- A. 40° B. 45° C. 50° D. 55° E. 70°

Q3. Each interior angle of a regular polygon is 144° . How many sides does it have?

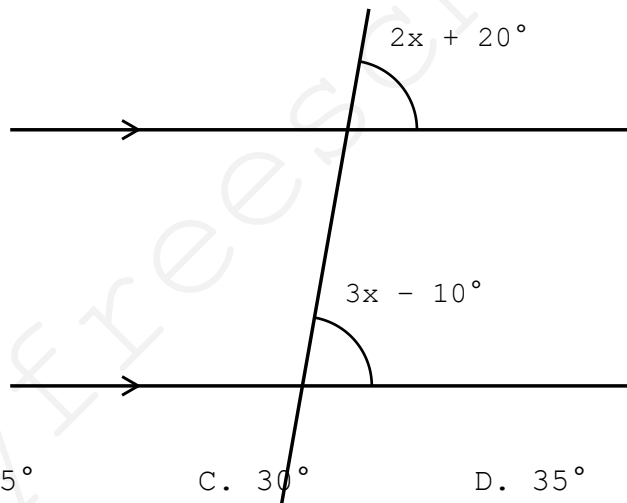
- A. 9 B. 10 C. 12 D. 15 E. 18

Q4. Work out the value of x .



- A. 10° B. 20° C. 25° D. 30° E. 40°

Q5. The two horizontal lines are parallel. Work out the value of x .



- A. 20° B. 25° C. 30° D. 35° E. 40°

Q6. Two angles of a triangle are equal and the third angle is 96° . How big is each of the equal angles?

- A. 36° B. 42° C. 48° D. 52° E. 84°

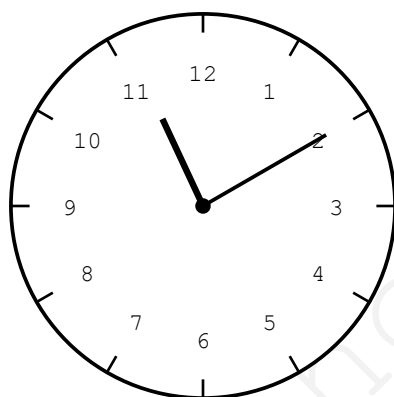
Q7. A regular polygon has 20 sides. What is the size of each exterior angle?

- A. 9° B. 12° C. 15° D. 18° E. 20°

Q8. The interior angles of a polygon add up to 2160° . How many sides does it have?

- A. 10 B. 12 C. 13 D. 14 E. 16

Q9. What is the size of the angle between the hands of this clock?

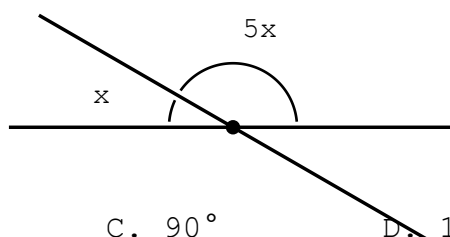


- A. 85° B. 90° C. 95° D. 100° E. 105°

Q10. The angles of a quadrilateral are in the ratio 2 : 3 : 4 : 6. What is the smallest angle?

- A. 36° B. 48° C. 72° D. 96° E. 144°

Q11. Two straight lines cross. Work out the size of the larger marked angle.



- A. 30° B. 60° C. 90° D. 120° E. 150°

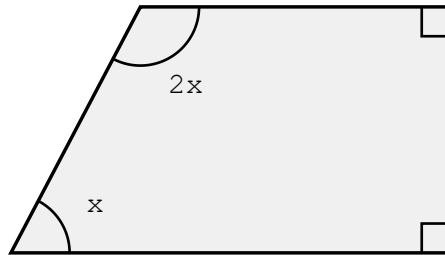
Q12. How many lines of symmetry does a regular decagon have?

- A. 4 B. 5 C. 8 D. 10 E. 20

Q13. Three angles meet at a point. Two of them are 55° and 70° , and the third is reflex. How big is the reflex angle?

- A. 125° B. 215° C. 225° D. 235° E. 245°

Q14. Work out the value of x in this trapezium.



- A. 60° B. 65° C. 70° D. 75° E. 90°

Q15. Which regular polygon has an exterior angle of 72° ?

- A. Square B. Pentagon C. Hexagon D. Octagon E. Decagon