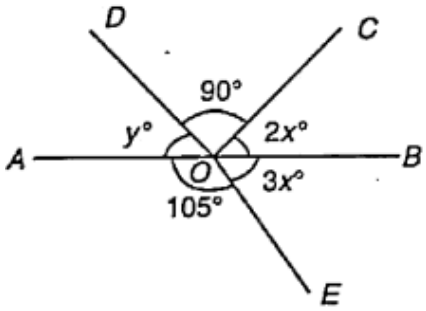
GEOMETRY

Line & Angle

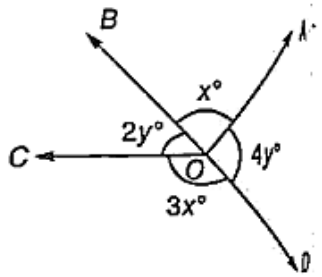
(Ref: FM-QAH2022010)

1. In the following figure, AB is a straight line. Find (x + y):



a) 55° b) 65°
c) 75° d) 80°

2. Find y, if x° = 36°, as per the given diagram:



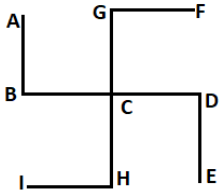
a) 36° b) 16°
c) 12° d) 42°

3. If (2x + 17)°, (x + 4) are complementary, find x:
a) 63° b) 53°
c) 35° d) 23°

4. If (5y + 62)°, (22° + y) are supplementary, find y:
a) 16° b) 32°
c) 8° d) 1°

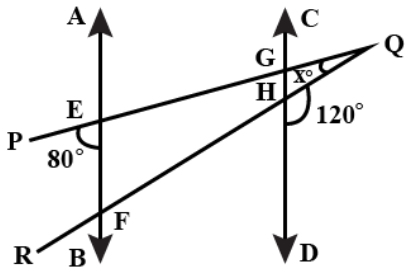
5. An angle is 30° more than one half of its complement. Find the angle in degrees.
a) 60° b) 50°
c) 45° d) 80°

6. In the given diagram AB||GH||DE and GF||BD||HI, ∠FGC = 80°. Find the value of ∠CHI:



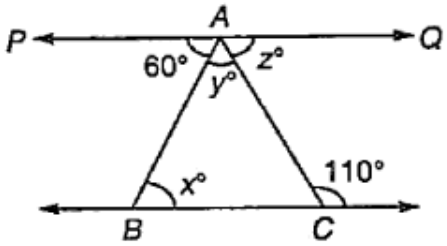
a) 80° b) 120°
c) 100° d) 160°

7. In the adjoining figure AB || CD and PQ, QR intersects AB and CD both at E, F, and G, H respectively. Given that m ∠PEB = 80°, m ∠QHD = 120° and m ∠PQR = x°, find the value of x:



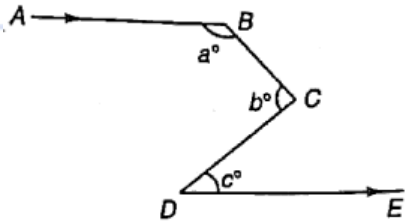
a) 40° b) 20°
c) 100° d) 30°

8. In the following figure find the value of y:



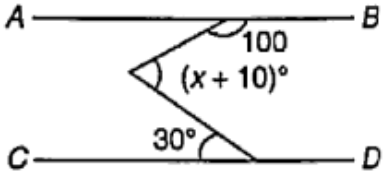
a) 70° b) 60°
c) 50° d) 80°

9. In the given figure AB || DE. Find a° + b° - c°:



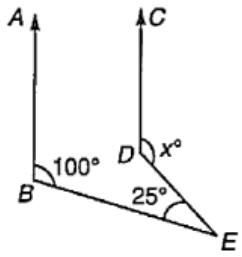
a) 160° b) 120°
c) 180° d) 210°

10. AB || CD, shown in the figure. Find the value of x:



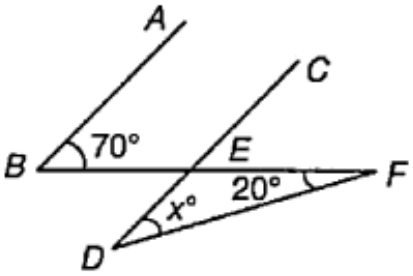
a) 100° b) 90°
c) 110° d) 140°

11. In the figure AB || CD, ∠ABE = 100°. Find m∠CDE:



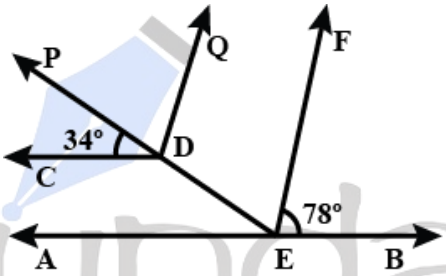
a) 125° b) 55°
c) 65° d) 75°

12. In the figure AB || CD, find x° (i.e., ∠CDF):



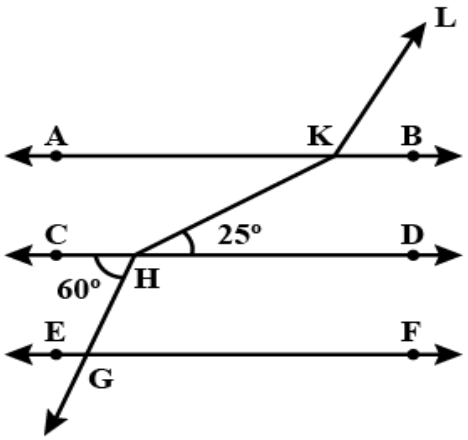
a) 50° b) 90°
c) 30° d) 70°

13. In the given figure AB || CD and EF || DQ. Find the value of ∠DEF:



a) 68° b) 78°
c) 34° d) 39°

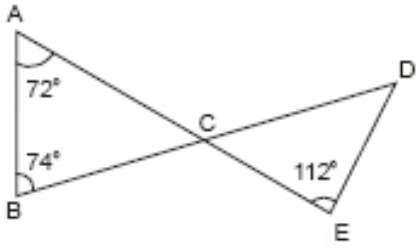
14. In the given figure AB || CD || EF and GH || KL. Find m ∠HKL:



a) 85° b) 145°
c) 120° d) 95°

15. Which one of the following statements is false?
    a) Two straight lines can intersect at only one point
    b) Through a given point, only one straight line can be drawn.
    c) A line segment can be produced to any desired length.
    d) Through two given points, it is possible to draw one and only one straight line.

16. In the given figure, find ∠CDE?



a) 34° b) 33°
c) 35° d) 38°

Answer Key

1. B	2. A	3. D	4. A	5. B	6. A	7. B	8. C	9. C	10. A
11. A	12. A	13. A	14. B	15. B	16. A				

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