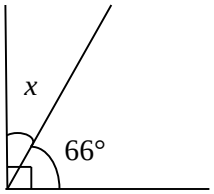
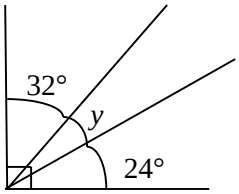
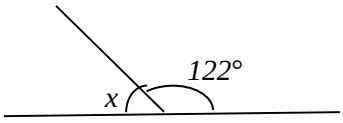
1) **Complementary Angles :-** Angles are called complementary if their sum is equal to 90°

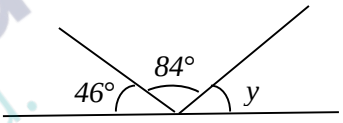




x = _____ y = _____

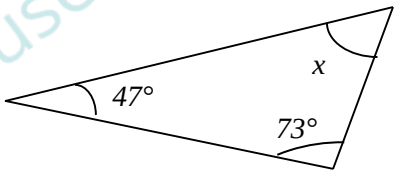
2) **Supplementary Angles:-** Angles are called supplementary if their sum is equal to 180°





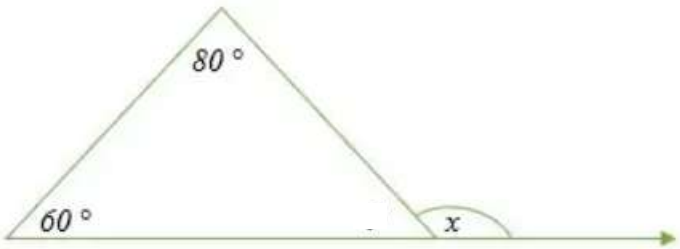
x = _____ y = _____

3) **Sum of all Angles of a Triangle** = 180°



x = _____

4) **Exterior angle of a triangle is equal to the sum of the two opposite interior angles**.

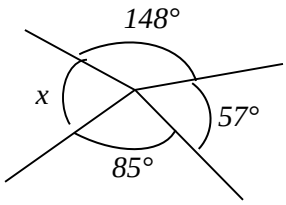


x = _____

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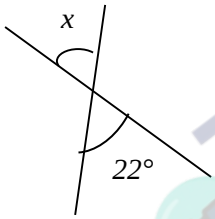


5) Sum of all Angles emerging from a point = 360°



x = _____

6) Vertically Opposite Angles :- Formed when two straight lines intersect each other. These angles are equal.

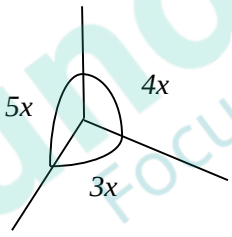


x = _____

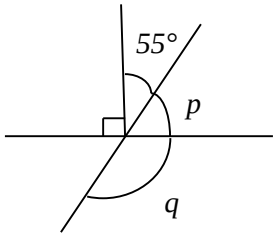
7) Practice Questions

Calculate the unknown angles in each of the following

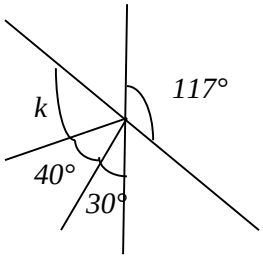
a)



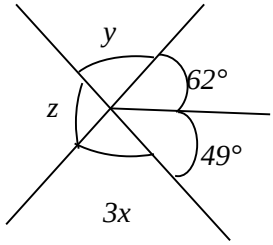
b)



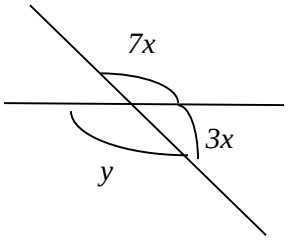
c)



d)



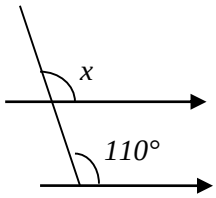
e)



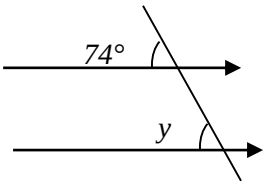
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8) Corresponding Angles :- Formed between two parallel lines cut by a transversal (straight line). Corresponding angles are always equal

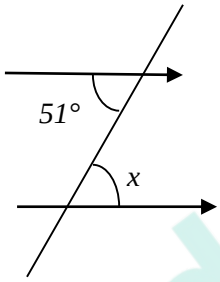


x = _____

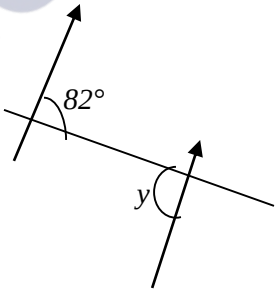


y = _____

9) Alternate Angles:- Formed between two parallel lines cut by a transversal (straight line). Corresponding angles are always equal

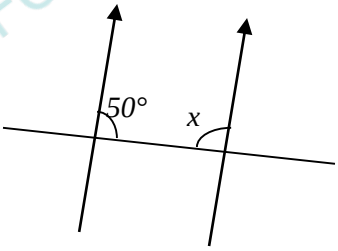


x = _____



y = _____

10) Interior Angles :- Formed between two parallel lines cut by a transversal (straight line). The sum of the interior angles is equal to 180°

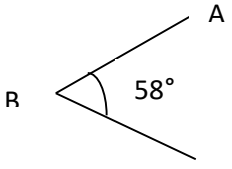


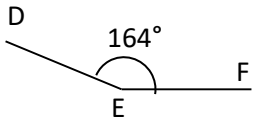
x = _____

11) Reflex Angle :- Angle greater than 180°

a) Find Reflex angle ABC

b) Find Reflex angle DEF





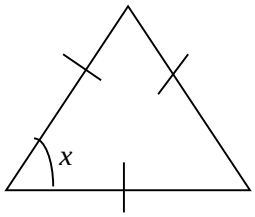
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12) Equilateral Triangle:-

Properties:-

All angles = 60°

All sides are equal



x = _____

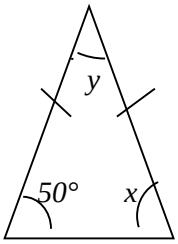
13) Isosceles Triangle:-

Properties:-

_____

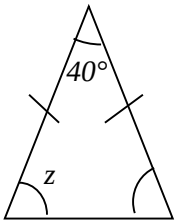
_____ sides are equal

_____ angles are equal



x = _____

y = _____



z =

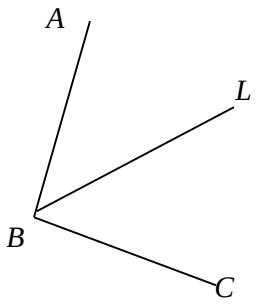
14) Angle Bisector:-

A line that cuts an angle into two equal parts,

Line LB Bisects the angle A$\hat{B}$C.

If A$\hat{B}$C = 110° ,

Find A$\hat{B}$L



Answers

1) x = 24° , y = 34°	8) x = 110° , y = 74°
2) x = 58°, y = 50°	9) x = 51° ,y = 82°
3) x = 60°	10) x = 130°
4) 140°	11) reflex A$\hat{B}$C = 302° reflex D$\hat{E}F$ = 196°
5) x = 70°	12) x =60°
6) x = 22°	13) x =50° ,y = 80° z = 70 °
7) a) x = 30° b) p = 35°, q = 145° c) k= 47° d) x = 23°, y = 69° , z = 111° e) x = 18°, y = 126°	14) 55°

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