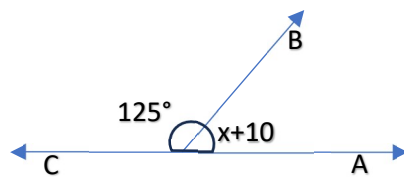1. The measure of the angle which is equal to its complement is--------
2. The measure of the angle which is equal to its supplement is-----------
3. Find the complement of the following angles:
   a) 49°   b) 26°   c) 18°
4. Find the supplement of the following angles:
   a) 109°   b) 74°   c) 11°
5. With reference to the given diagram, identify the following:
   a) Vertically opposite angles
   b) Complementary angles
   c) Linear pairs
   d) Pair of adjacent angles
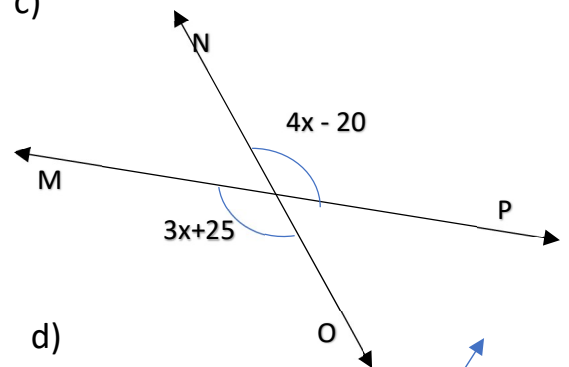   e) Pair of adjacent complementary angles
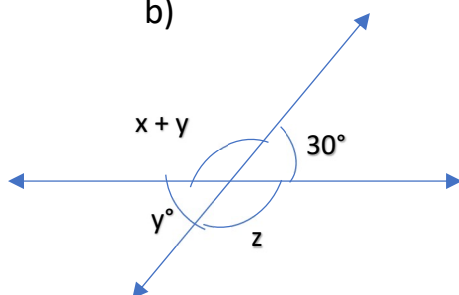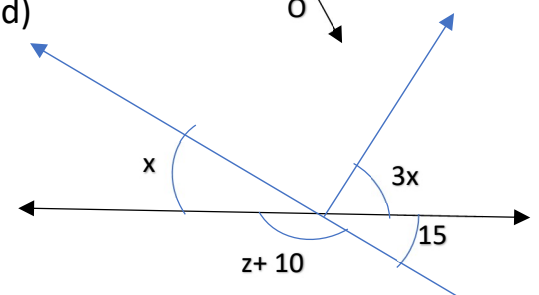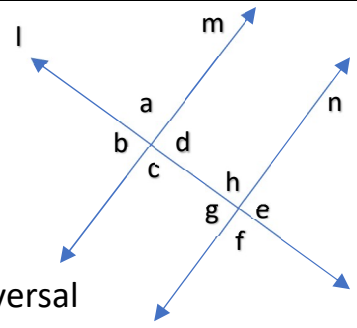

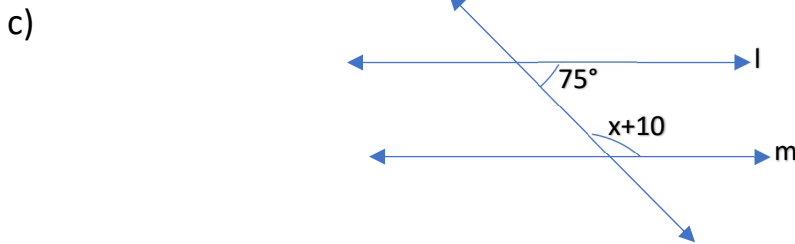6. Find the values of x and y & z:
   a)

   b)

   c)

   d)
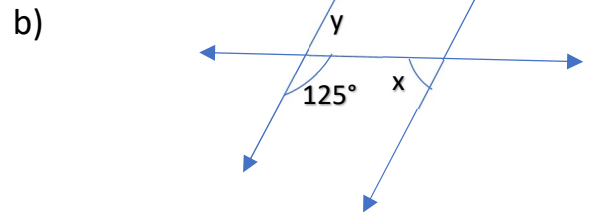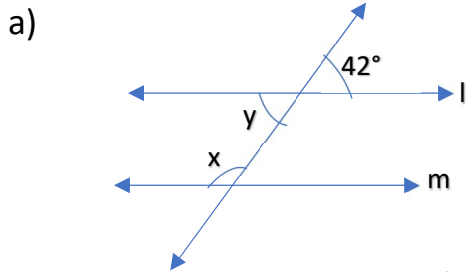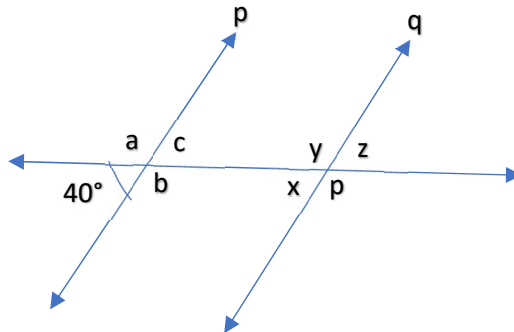
7. From the figure identify:
   a) Corresponding angles
   b) Alternate interior angles
   c) Pair of interior angles on the same side of the transversal
   d) Exterior angles
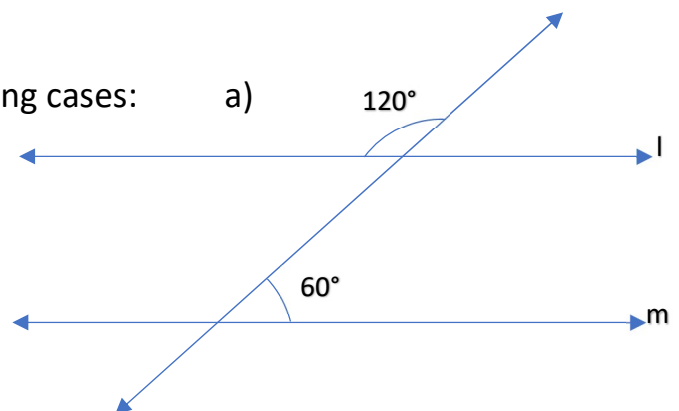
8. If l||m, Find the value of x & y

   a)

   42°
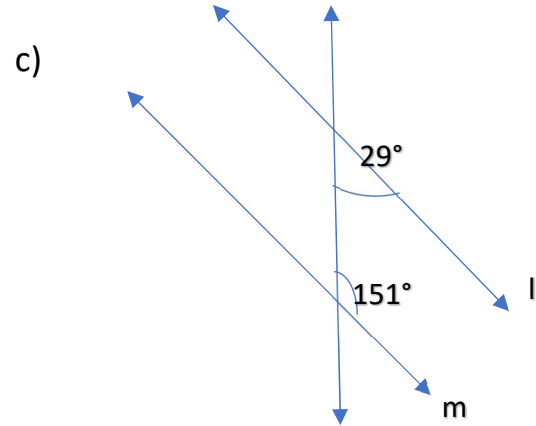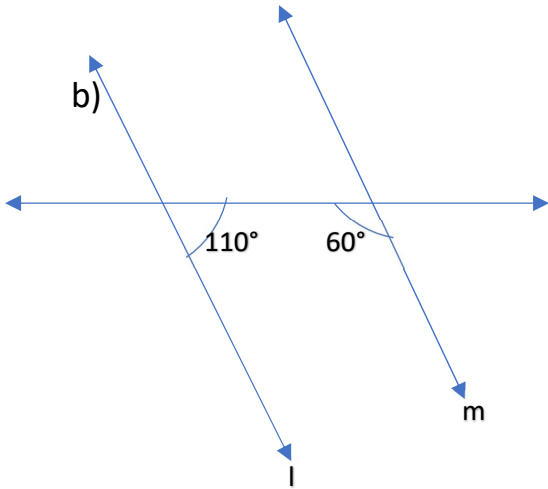   y
   x

   b)

   y
   125°   x

   c)

   75°
   x+10

9. If p||q, Find the measure of other angles in the given figure:

   a   c   y   z
   40° b   x   p

10. Check whether l|| m in the following cases: a)

    120°

    60°

b)

110° 60°

m

l

c)

29°

151°

l

m

Answers:

1) 45° 2)90° 3) a) 41°   b) 64°   c) 72°

4) a) 71°   b) 106°   c) 169°

5) a) ∠DOF & ∠BOG, ∠DOB & GOF

b) ∠EOD &∠DOC, ∠COB & BOA

c)∠EOD & ∠DOA, ∠EOF & ∠FOA

d)∠EOD & ∠DOC, ∠DOC & ∠COB, ∠COB & ∠BOA

e) ∠EOD & ∠DOC, ∠COB & ∠BOA

6) a)45°   b) x = 120°,y = 30°   c) x = 45°

d) x = 15°,y = 120°, z = 155°

7) a) ∠a & ∠h, ∠b & ∠g, ∠c &∠f, ∠d & ∠e

b) ∠d & ∠g, ∠c & ∠h

c) ∠c & ∠g, ∠d & ∠h

d) ∠a, ∠b, ∠e, ∠f

8) a) x = 138°,y = 42°   b) x = 55°,y = 55°   c) x = 95°

9) ∠a = ∠b = 140°,∠c = 40°,∠x= 40°,∠y = 140°,∠z = 40°,∠p = 140°

10) a) Yes   b) No   c) Yes

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