LINES AND ANGLES

1) Write the supplement of :

(i) 80° (ii) (y + 30)° (v) (90 - p + q)°

2) Write the complement of :

(i) 35^o (ii) 69^o (iii) $(p + 15)^o$

3) State whether the following statements are true or false:

a) Corresponding angles are congruent when two parallel lines are intersected by a transversal.

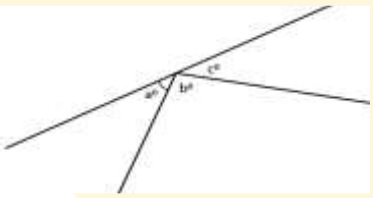
b) Alternate interior angles are supplementary when two parallel lines are intersected by a transversal.

c) Alternate exterior angles are congruent when two parallel lines are intersected by a transversal.

d) Vertical angles are formed when two parallel lines are intersected by a transversal.

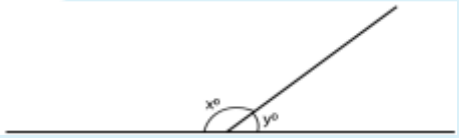
4) In the adjoining figure,

if $b^o = 2a^o + 5c^o$, find the value of a + 2c.



5) In the given figure, if x = 3y,

find x and y.



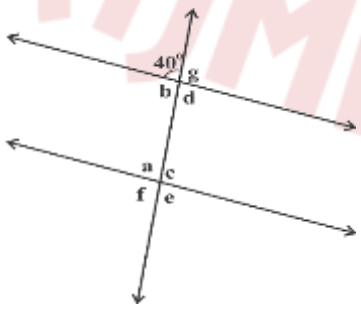
6) If two complementary angles are in the ratio 2 : 3, find them.

7) If 2x + 15° and 3x + 20° are supplementary, find the value of x.

8) Two complementary angles are (p + 14)° and (2p – 23)°, find the measures of complementary angles.

9) Two supplementary angles are in the ratio of 4 : 5, find the angles.

10) Find the measures of all remaining angles



11) Find the value of x