I UNIT TEST 2017-18

Sub: Geometry

STD : IX **MARKS: 20**

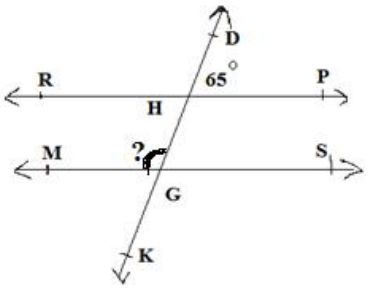
DATE: 08/07/2017 **TIME: 1 Hr**

Q.1[A] Answer the following (any 4) **(4)**

i. In △ ABC , ∠A = 76° , ∠B = 48°, find the measure of ∠C.

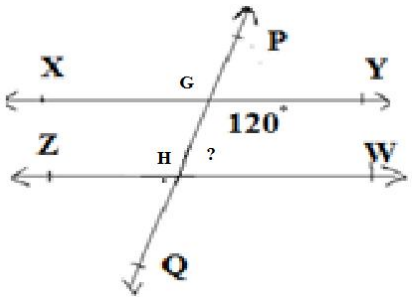
ii. Point M is the midpoint of seg AB. If AB = 18 then find the length of AM.

iii. In the given figure, line RP || line MS and line DK is their transversal. ∠DHP = 65°. Find the measure of ∠HGM.



iv. On a number line, co-ordinate of P,Q,R are 3, -5 and 6 receptively. State with reason whether the given statements is true or false.
d(P,R) + d(Q, R) = d(P, R)

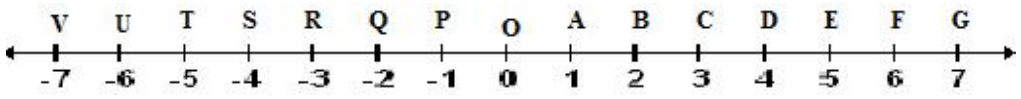
v. If two parallel lines are intersected by a transversal and measure of one interior angle is 120°then find the measure of other angle.



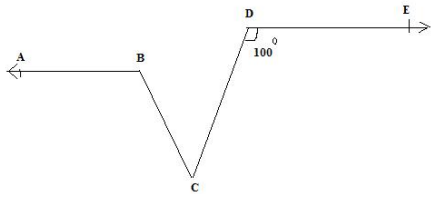
Q.1[B] Attempt any 3 questions **(6)**

i. Find the distance with the help of the number line

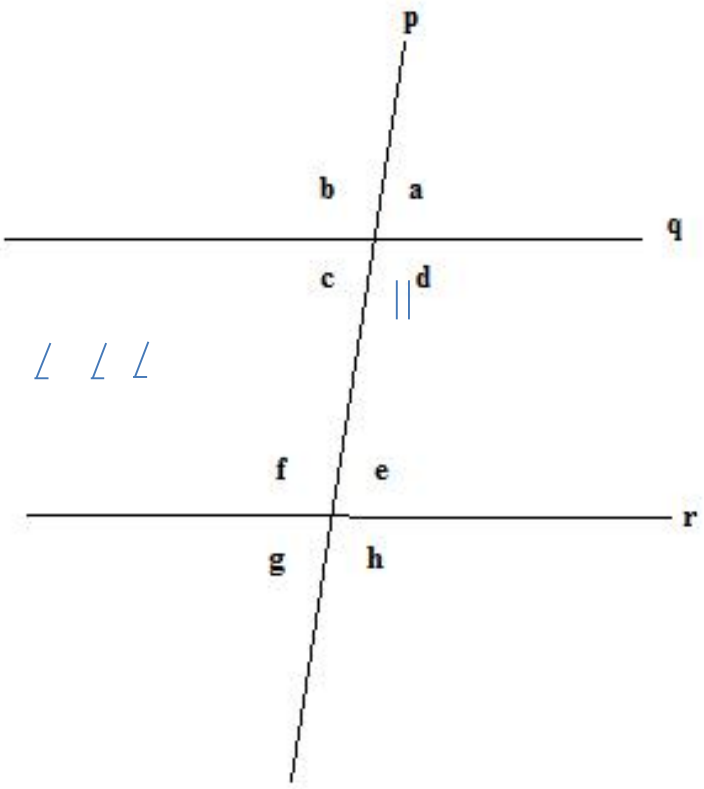
a) d(P , C) b) d(B , G)



ii.In the given figure, if ray BA || ray DE, m ∠C = 50°, m ∠D = 100°. Find the measure of ∠ABC.



iii. Find from the given information the points are collinear or not collinear if d (X,Y) = 15,



d(A ,B) if x = - 3 and y = 7.

en d(A, B) = ?

(6)

sversal and ∠a = 70°, find the values of ∠ ∠ ∠

ii. Prove that" Opposite angles formed by two intersecting lines are of equal measures"

iii. Prove that" the sum of measures of all angles of a triangle is 180°.

Q.2 [B] Attempt any one question **(4)**

i. Prove that " if a pair of alternate angles formed by a tranversal of two lines is congruent then the two lines are parallel"

ii.Prove that " the corresponding angles formed by a transversal of two parallel lines are of equal measures."