Home Revise

1st UNIT TEST

STD: 9th EM/SE **TOPIC :** 1 & 2 **MARKS:** 20

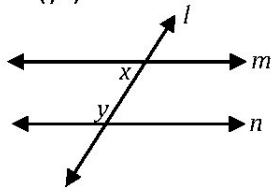
SUB: Geometry **DATE:** 16/7/18

Q 1. Solve the following. (Any 2) **02 Marks**

1. Select the correct alternative from the answers of the questions given below.
   (a) How many lines are determined by three distinct points?
   (i) two (ii) three (iii) one or three (iv) six
2. The number of angles formed by a transversal of two lines is ___
   (a) 2 (b) 4 (c) 8 (d) 16
3. If co-ordinate of A is -4 and B is -5 then find d(A, B)

Q 2. Solve the following. (Any 2) **04 Marks**

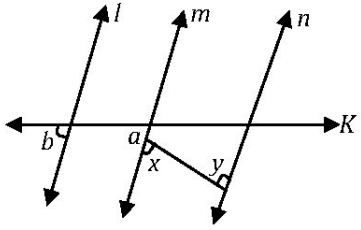
1. If x – y – z, $l(xz) = 3\sqrt{7}$ $l(xy) = \sqrt{7}$ then $l(yz)$ = ?
2. $y = 108^0$ and $x = 71^0$ Are the lines m and n parallel? Justify?



3. Point M is the midpoint of seg AB. If AB = 8 then find the length of AM.

Q 3. Solve the following. (Any 2) **06 Marks**

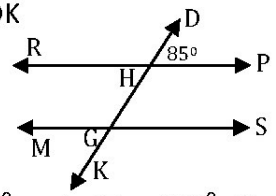
1. Write the following statement in 'if-then' form.
   (a) The opposite angles of a parallelogram are congruent.
   (b) The diagonals of a rectangle are congruent.
   (c) In an isosceles triangle, the segment joining the vertex and the mid point of base is perpendicular to the base.
2. If ∠a ≅ ∠b and ∠x ≅ ∠y then prove that line l ‖ line n.



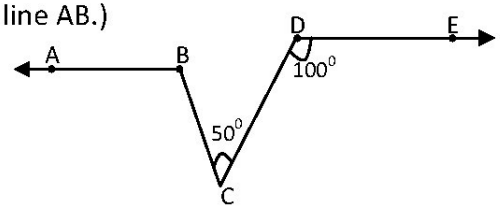
3. From the information given below, find which of the point is between the other two. If the points are not collinear, state so.
   (a) d(P,Q) = 7, d(P,Q) = 10, d(Q,R) = 3

Q 4. Solve the following. (Any 2) **08 Marks**

1. In figure, line RP ‖ line MS and line DK is their transversal. ∠DHP = 85^0 Find the measures of following angles.
   (i) ∠RHD (ii) ∠PHG
   (iii) ∠HGS (iv) ∠MGK



2. In figure, if ray BA ll ray DE, ∠C = 50^0 and ∠D = 100^0. Find the measure of ∠ABC. (Hint: Draw a line passing through point C and parallel to line AB.)



3. Prove : The opposite angles formed by two intersecting lines are of equal measure.