APS-(910) Math (E)

Annual Exam. 2016 - 2017

Class - 9

Subject -- Maths

Time: 3 1/4 Hours Marks: 100 Note: 1. Draw a graph paper in Q. No. 26. Q.No. Marks per question 1-10 11-15 16-25

If $\sin \theta = \frac{5}{13}$ Then find value of $\cos \theta$.

If three angle's of quadrilateral are 75°, 90° & 75°. Then find fourth angle.

Write the value of each angle in equilator triangle.

What coordinate of origin.

26-30

What is the definition of Trapezium.

In right angle triangle \triangle ABC, \angle C = 90°, then which side is the biggest of AABC.

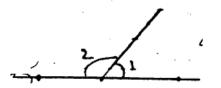
If y = 2x + 5 and x = 5, then find the value of y.

In \triangle ABC, AB = 3 cm, BC = 4 cm and CA = 5 cm, Write of perimetre of AABC.

In two digit no. unit digit is y & tenth digit is x, then write the number.

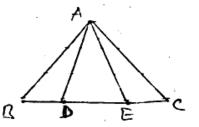
Multiply by sutra urdhva. Tiryagbhyam. Factorise $x^3 - 64$ by use identities.

In given figure $\angle 1$ and $\angle 2$ are linear. If $\angle 2 - \angle 1 = 18^{\circ}$ then find value of $\angle 1$ and $\angle 2$.



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Prove that me How much time will be needed to a minute arm of clock to make $\frac{3\pi}{2}$ radian angle. Locate $\sqrt{2}$ on the number line. The ratio of two numbers is 3:4. If 5 is subtracted from each of the number. The ratio becomes 5:7, find the numbers. In given figure AB = AC and BE = CD, prove that AD = AE. 4



The line draw through the mid point of one side of a triangle, parallel to another side bisects the third side.

ABC and BDE are two equilateral triangles such that D is the

mid point of side BC. Show that : ar (BDE) = $\frac{1}{4}$ ar (ABC). 4

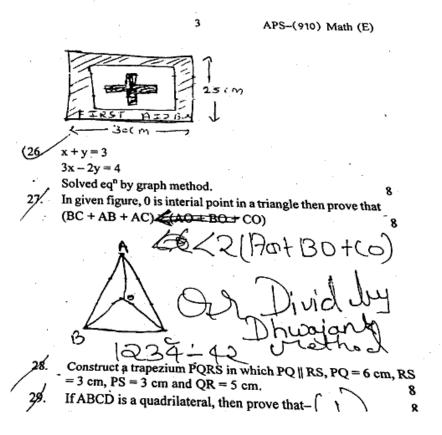
Find area of quadrilateral ABCD. given AC = 15 cm side AB = 7 cm, BC = 12 cm, CD = 12 cm and AD = 9 cm.

Abox 1 m long, 60 cm wide and 40 cm deep in to be made. Write cost of painting at the are of Rs. 20 per m2.

Construct a $\triangle ABC$ given side AB = 6 cm, angle $\angle ABC = 60^{\circ}$ and $\angle ACB = 30^{\circ}$.

Construct a grouped frequency distribution table with class size 5 for the date given-13, 11, 8, 19, 0, 44, 27, 10, 8, 35, 13, 27, 30, 17, 43, 23, 19, 43, 17, 7.

Find the cost of making two rectangular board at the rate of Rs. 10 per squre centimeter size of rectangular informational sign board is 30° × 25°



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