

Adjoint Institute of Mathematics
Faculty of Mathematics

IIT Foundation Weekly – QUIZ
Faculty:G Ekaveera Kumar

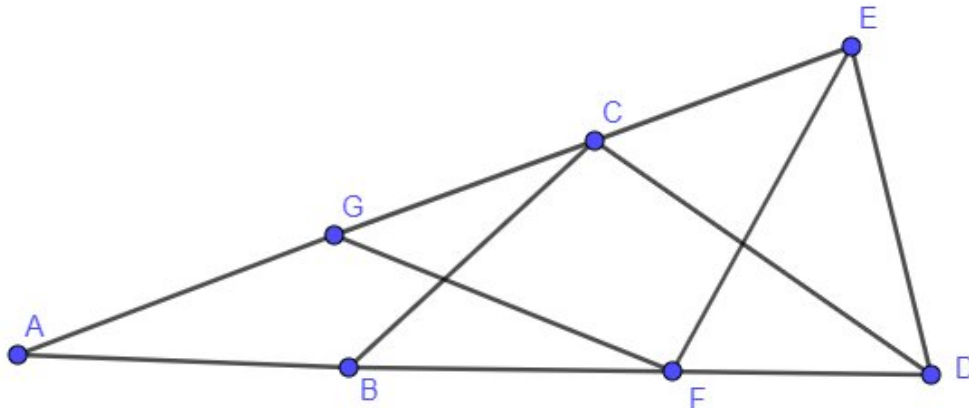
Topic: PT practice

2021/01/23

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Student Number: Class 9 _____

1. In the figure below $AB = BC = CD = DE = EF = FG = GA$. Find $\angle DAE$ in degrees.



2. AB and CD are two chords such that $AB = 10$ cm, $CD = 24$ cm and AB is parallel to CD. The distance between the chords is 17 cm. Find the radius of the circle.

3. The two opposite vertices of a square are $(-1, 2)$ and $(3, 2)$. Find the coordinates of the other two vertices. Also find the area of the square.

4. The vertices of a triangle are $(5, 1)$, $(11, 1)$ and $(11, 9)$. Find the coordinates of the circumcentre of the triangle. What is your observation?

5. ABC is a triangle right angled at C. A line through the mid-point M of hypotenuse AB and parallel to BC intersects AC at D. Show that $CM = MA = \frac{1}{2}AB$