Bangalore Mathematical Institute Faculty of Mathematics

IIT Foundation Weekly – QUIZ #6 Faculty:G Ekaveera Kumar

Topic:Coordinate geometry, logs and tpzm

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1. In the figure below ABCD is a trapezium with $AB \parallel DC \parallel EF$. If E is the mid point of AD, then prove that F is mid point of BC.



- 2. If $\log_{36}(8) = A$, then find $\log_{36}(9)$ in terms of A and the final answer should not contain any logarithms.
- 3. If A(x, -1), B(2, 1), C(0, 3) and D(-2, 1) are vertices of a square. Find the value of x.