

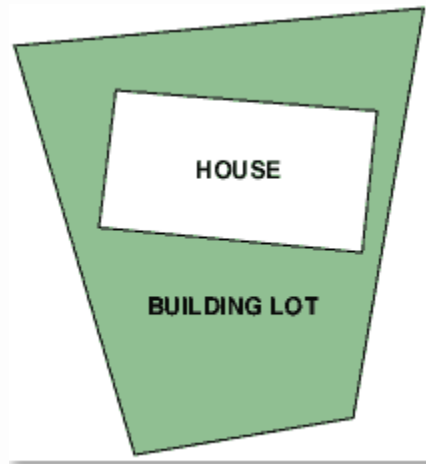
Geometry: Contractor

Lamm Construction

Job Description: Residential construction

Problem:

A builder needs to place a house on a lot that has no parallel sides. How would he place the house on the lot and make sure the house is square on the lot?



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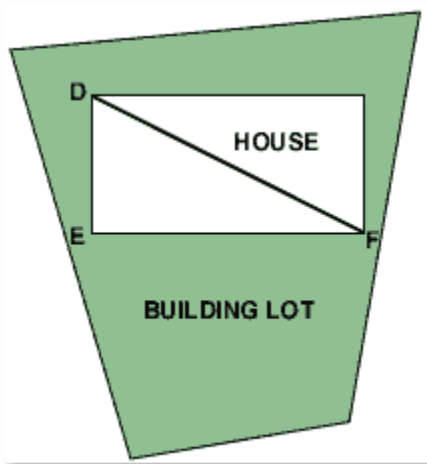
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Solution:



Find the starting point marked (D).

Measure the width of the house to find the distance (DE).

Measure the length to find distance (EF).

If $DF^2 = (FE)^2 + (DE)^2$, then the house is square on the lot as proved by the Pythagorean theorem.