



## Question:

Does the image show the relationship between circle X and triangle LYD as incircle?

## Choices:

A: Yes

B: No

## SymVAE-7B

Step 1: Identify the points. The diagram contains five points: L, Y, D, Q, and X.

Step 2: Identify the line segments. The points are connected by seven edges: LY, YD, DQ, QL, DL, XD, and XL.

Step 3: Recognize the shapes. Two shapes are identified: a square with parallel opposite sides, perpendicular adjacent sides, and equal side lengths; and a circle centered at point X.

Step 4: Analyze geometric relations. The circle at X lies entirely within the triangle formed by D, L, and Y. The circle is tangent to all three sides of this triangle, satisfying the definition of an incircle. So, the answer is A.

## Qwen2.5-VL-7B

Step 1: Identify the triangle in question. The triangle in question is triangle LYD.

Step 2: Check if circle X is tangent to all three sides of triangle LYD. Circle X appears to be tangent to side LY at point X. Circle X appears to be tangent to side DY at point X. Circle X does not appear to be tangent to side LD at any point other than the center of the circle.

Step 3: Determine if the circle is an incircle. For circle X to be the incircle of triangle LYD, it must be tangent to all three sides of the triangle. Since it is not tangent to side LD, it cannot be the incircle of triangle LYD. Therefore, the answer is B.