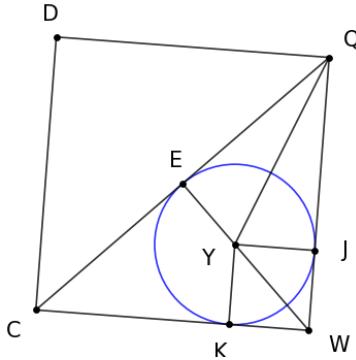


Synthesis Diagram

Image:

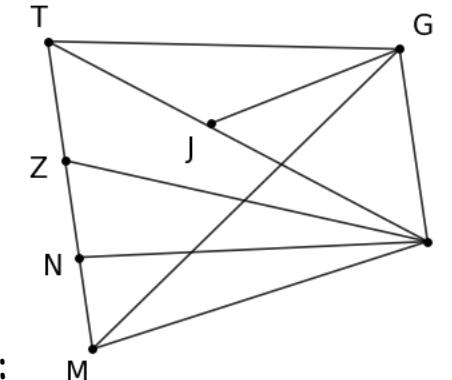


Logic Forms:

"Points": ["W", "C", "D", "Q", "E", "J", "K", "Y"],
 "Lines": ["WC", "CD", "DQ", "QW", "QC", "YE", "YJ", "YK", "YW", "YQ"],
 "Shapes": ["Circle(Y)", "Square(W, C, D, Q)"],
 "Properties": [
 "Square(W, C, D, Q) with Parallel(Line(W, C), Line(Q, D)),
 Parallel(Line(C, D), Line(W, Q)),
 Perpendicular(Line(W, C), Line(C, D)),
 Perpendicular(Line(C, D), Line(D, Q)),
 Equals(LengthOf(Line(W, C)), LengthOf(Line(C, D))),
 Equals(LengthOf(Line(C, D)), LengthOf(Line(D, Q))),
 Equals(LengthOf(Line(D, Q)), LengthOf(Line(Q, W)))";
],
 "Relations": [
 "PointLiesOnCircle(E, Circle(Y, radius_0_0))",
 "PointLiesOnCircle(J, Circle(Y, radius_0_0))",
 "PointLiesOnCircle(K, Circle(Y, radius_0_0))",
 "Incircle(Circle(Y, radius_0_0), Triangle(W, C, Q))"
],
 "Positions": {
 "W": (0.738, 0.777), "C": (0.221, 0.738),
 "D": (0.260, 0.221), "Q": (0.777, 0.260),
 "E": (0.498, 0.500), "J": (0.750, 0.625),
 "K": (0.586, 0.766), "Y": (0.598, 0.613)
 }

Synthesis Diagram

Image:



Logic Forms:

"Points": ["B", "G", "T", "M", "J", "Z", "N"],
 "Lines": ["BG", "GT", "TM", "MB", "GM", "GJ", "BT", "BZ", "BN"],
 "Shapes": ["IsoscelesTrapezoid(B, G, T, M)"],
 "Properties": [
 "IsoscelesTrapezoid(B, G, T, M) with Parallel(Line(B, G), Line(M, T)), Equals(LengthOf(Line(G, T)), LengthOf(Line(B, M)))"
],
 "Relations": [
 "AngleBisector(Line(G, J), Angle(T, G, M))",
 "AngleTrisection(Angle(T, B, M), Angle(Z, B, T), Angle(Z, B, N), Angle(N, B, M))"
],
 "Positions": {
 "B": (0.777, 0.566),
 "G": (0.736, 0.285),
 "T": (0.221, 0.273),
 "M": (0.287, 0.725),
 "J": (0.459, 0.395),
 "Z": (0.246, 0.449),
 "N": (0.268, 0.590)
 }