Mix/match question to accompany GeoGebra worksheet "Squares: Drawn vs. Constructed" by Brad Ballinger

Match each *drawn* square with what it was *constructed* to be:

$(1) A_1 B_1 C_1 D_1$	•	•	(a) Square
$(2) A_2 B_2 C_2 D_2$		•	(b) Rectangle
(3) $A_3B_3C_3D_3$	•	•	(c) Rhombus
$(4) A_4 B_4 C_4 D_4$	•	•	(d) Parallelogram
$(5) A_5 B_5 C_5 D_5$	•	•	(e) Kite
(6) $A_6 B_6 C_6 D_6$	•	•	(f) Trapezoid
(7) $A_7 B_7 C_7 D_7$	•	•	(g) Isosceles Trapezoid
(8) $A_8 B_8 C_8 D_8$	•	•	(h) Quadrilateral
(9) $A_9B_9C_9D_9$	•	•	(i)

How would you fill in the blank for Category (i)?

Most of the polygons fit more than one category, and most of the categories describe more than one polygon. However, each polygon is the best choice for only one category: the most specific category it belongs to.

Note that these constructions can be put in some "degenerate" configurations: for example, a square of side length 0 is not really a square.