












Div 2 – Elective GeoGebra

Creating a Square Tool

Preparations

- Open a new GeoGebra classic
- Hide the algebra window, input field, and coordinate axes
- Change the labeling setting to All new objects

Step by step

1		Segment a with endpoints AB
2		Perpendicular line b to segment AB through point B
3		Circle c with center B through point A
4		Intersect circle c and perpendicular line b to get intersection point C
5		Parallel line d to perpendicular line b through point A
6		Parallel line e to segment a through point C
7		Intersect lines d and e to get intersection point D
8		Square $ABCD$
9		Hide auxiliary objects (lines and circle).
10		Hide labels of all objects.
11		Set the square's color to black and set the filling to 0%.
12		Create your square tool (menu <i>Tools – Create new tool...</i>). <u>Output objects</u> : square, sides of the square, points C and D <u>Input objects</u> : points A and B <u>Name</u> : Square <u>Toolbar help</u> : Click on two points
13		Save your square tool as file <i>Square_Tool.ggt</i> <u>Hint</u> : Menu <i>Tools – Manage tools... – Save as...</i>