








Theorem 2 (28 October 2014)

No.	Name	To...	Definition	Command	Value
1	Point A				$A = (-1, 1)$
2	Point B				$B = (2, 1)$
3	Polygon square2		Polygon[B, A, 4]	Polygon[B, A, 4]	square2 = 9
3	Segment c		Segment [B, A] of Polygon square2	Segment[B, A, square2]	$c = 3$
3	Segment m		Segment [A, H] of Polygon square2	Segment[A, H, square2]	$m = 3$
3	Point H		Polygon[B, A, 4]	Polygon[B, A, 4]	$H = (-1, -2)$
3	Point I		Polygon[B, A, 4]	Polygon[B, A, 4]	$I = (2, -2)$
3	Segment n		Segment [H, I] of Polygon square2	Segment[H, I, square2]	$n = 3$
3	Segment p		Segment [I, B] of Polygon square2	Segment[I, B, square2]	$p = 3$
4	Line q		Line through A perpendicular to Line[A, B]	PerpendicularLine[A, Line[A, B]]	$q: x = -1$
5	Point C		Point on q	Point[q]	$C = (-1, 3)$
6	Polygon square3		Polygon[C, B, 4]	Polygon[C, B, 4]	square3 = 13
6	Segment a		Segment [C, B] of Polygon square3	Segment[C, B, square3]	$a = 3.61$
6	Segment b_1		Segment [B, D] of Polygon square3	Segment[B, D, square3]	$b_1 = 3.61$
6	Point D		Polygon[C, B, 4]	Polygon[C, B, 4]	$D = (4, 4)$
6	Point E		Polygon[C, B, 4]	Polygon[C, B, 4]	$E = (1, 6)$
6	Segment c_1		Segment [D, E] of Polygon square3	Segment[D, E, square3]	$c_1 = 3.61$
6	Segment d		Segment [E, C] of Polygon square3	Segment[E, C, square3]	$d = 3.61$
7	Polygon square1		Polygon[A, C, 4]	Polygon[A, C, 4]	square1 = 4
7	Segment b		Segment [A, C] of Polygon square1	Segment[A, C, square1]	$b = 2$
7	Segment f		Segment [C, F] of Polygon square1	Segment[C, F, square1]	$f = 2$
7	Point F		Polygon[A, C, 4]	Polygon[A, C, 4]	$F = (-3, 3)$
7	Point G		Polygon[A, C, 4]	Polygon[A, C, 4]	$G = (-3, 1)$
7	Segment g		Segment [F, G] of Polygon square1	Segment[F, G, square1]	$g = 2$
7	Segment h		Segment [G, A] of Polygon square1	Segment[G, A, square1]	$h = 2$
8	Number sum		square1 + square2	square1 + square2	sum = 13