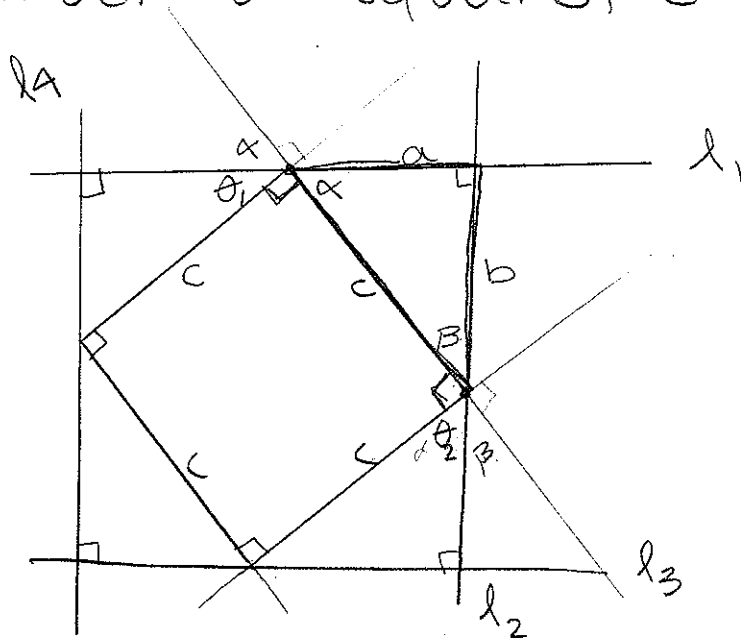


Problem 4

1) Construct a square, c^2 (All right \angle 's)



2) Construct a straight line, l_1 , with a corner of square c as a pt. on line l_1

3) Construct a straight line, l_2 , $\perp l_1$, with a different corner of square c as a pt on l_2

4) Label sides and angles of Δ as shown.

5) We know that $\alpha + \beta = \text{rt. } \angle$ and opposite angles are congruent $\Rightarrow \theta_1 = \theta_2 = \alpha$, because we know from the original Δ in the upper right corner:

