Figure 1: Two higher order triangles, denoted T_0 and T_1. T_0 is an affine triangle; T_1 is not affine.

1 Diagram

Table of vertex coordinates:

Vertex	x-coordinate	y-coordinate
$\mathbf{x}_0$	0.0	0.0
$\mathbf{x}_1$	1.0	0.0
$\mathbf{x}_2$	0.0	1.0
$\mathbf{x}_3$	-1.0	0.0
$\mathbf{x}_4$	0.6	0.6
$\mathbf{x}_5$	0.0	0.5
$\mathbf{x}_6$	0.5	0.05
$\mathbf{x}_7$	-0.5	0.5
$\mathbf{x}_8$	-0.5	0.0