**Exercise 11 – Generalized Linear Transformation (15.January.2018 16h-17h)**

* + - 1. Represent in terms of generalized linear transformation the following geometric transformation:



1. translation 1 in both x and y and calculate the new coordinates of point (1,1).

1. translation 1 in both x and y and scaling 2 in both directions and calculate the new coordinates of point (1,1).
2. translation 1 in both x and y and scaling 2 in both directions and rotation of 45 degrees and calculate the new coordinates of point (1,1).