

(2) for affine : $h_{31} = h_{32} = 0, h_{33} = 1$

for homography : $h_{33} = 1$

(3) Affine transformations keep parallel lines parallel, so if there are two parallel lines in the first image, but the same two lines are not parallel in the second image, affine transformation cannot convert image 1 to image 2.

Homography keeps lines straight, so if there are 3 points on a line in the first image, but not on a line in the second image, homography cannot convert image 1 to image 2.