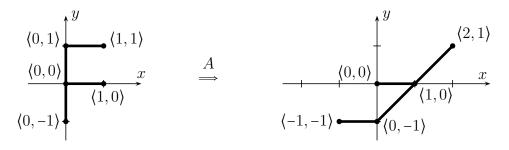
Name:

PID:

Problems 2 and 3 concern the affine function A which maps the "F" shape as shown:



1. Give three different homogeneous coordinate representations for the point $(1, \frac{3}{2}) \in \mathbb{R}^2$.

2. Give a 3×3 matrix which, when acting on homogeneous coordinates, represents the transformation $A : \mathbb{R}^2 \to \mathbb{R}^2$ shown above.

3. Now give a 3×3 matrix which, when acting on homogeneous coordinates, represents the inverse A^{-1} of the transformation A.