${\bf Geometric\text{-}Transformation\text{-}Example 2}$

Question 1

		x = 0	x = 1	x=2
	y = 0	1	10	100
	y = 1	4	40	200
	y=2	7	60	150

The above picture is transformed by a geometric transformation. The (forward) description of this transformation is:

The pixel at coordinate (x, y) in the original picture moves to the location (y, 3x - 2y) in the new picture.

A.

Compute the transformed image using Nearest-Neighbor interpolation.

	x = 0	x = 1	x = 2
y = 0			
y = 1			
y=2			

В.

Compute the first line of the transformed image using Bilinear interpolation.

	x = 0	x = 1	x=2
y = 0			