Name:

UNIQNAME#:

2	4	4	10

Directions – *The quiz is closed book/notes. You have 10 minutes to complete it; use this paper only.*

Problem 1: Recall (2pts) (True or False)

Range Map is an operation that applies range operators at all possible locations in the image domain.
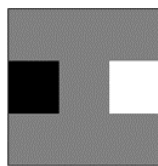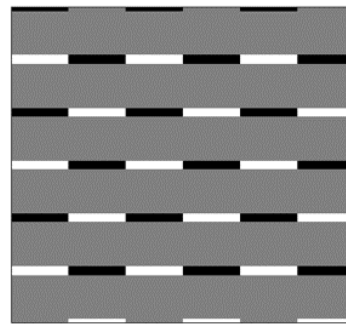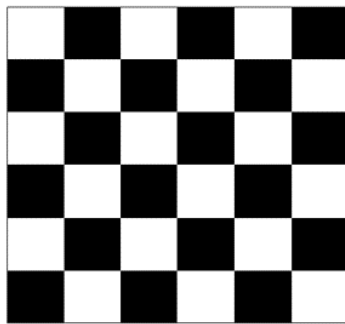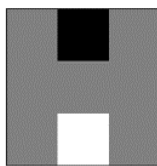
Solution:

True.

Problem 2: Comprehension (4 pts) (Show any derivations/work and explain.)

One student worte a program that applied a kernel to an image. Below are the original image and the output image. In the four kernels under the images, which kernel was the one the student used?
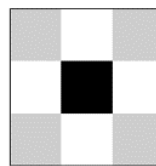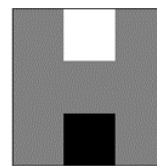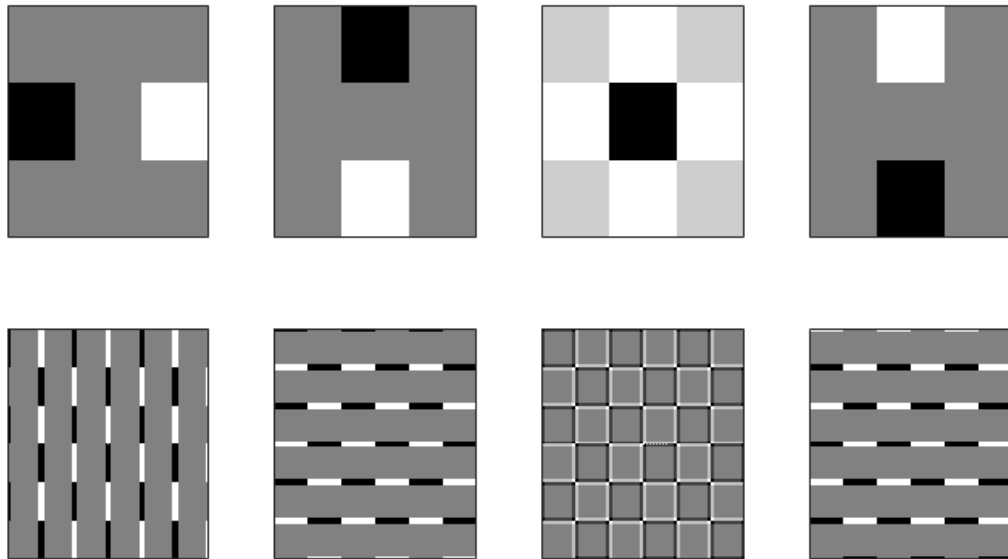
(Gray: 0, Black:-1, White: 1)
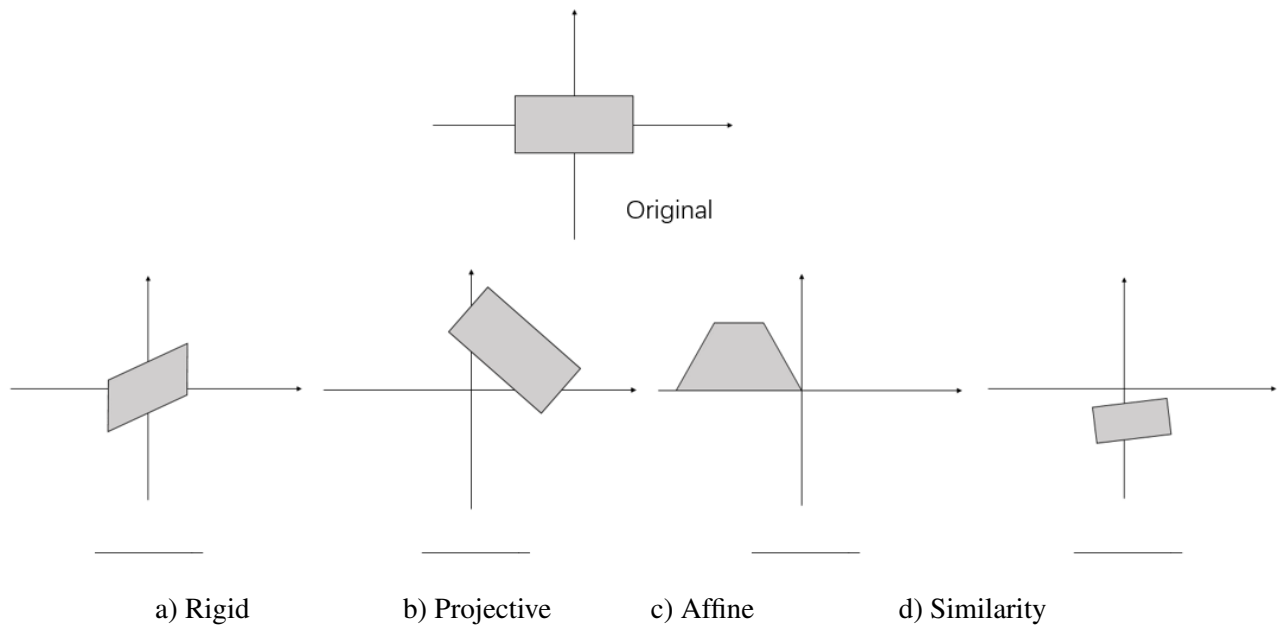

(a)   (b)   (c)   (d)

Solution:

b

Problem 3: Comprehension (4 pts)

Match the geometric transformations on the top with the transformed shapes on the bottom. Write the letter of corresponding transformation under the images.

Original

a) Rigid   b) Projective   c) Affine   d) Similarity

Solution:

c, a, b, d