

## Assignment Problems:

### Problem 1.

a). Mr. David is a xeroxer. He got a Microsoft Word file for printing. At first, he opened the file and checked it on the monitor. Then, he printed the file using a color printer. Choose the color models used in the devices used by Mr. David with proper reasoning.

[2]

b) For a CMY model, values are given as follows:  $C = 0.4$ ,  $M = 0.5$ , and  $Y = 0.7$ . Compute the Hue, Saturation, and Brightness of that model.

[3]

**Problem 2.** Munia drew a triangle on a piece of paper with a co-ordinate system and reflected it about

the line  $y = x$ . Then she uniformly scaled it with a factor of 2 about the point (0,0) and finally rotated it  $90^\circ$  about the point -1,-1. After that, he found that the triangle was located with vertices (3,2), (-2,0), and (1,2).

a). Assume before reflection, the position of one vertex of the triangle was (2, 1). Identify the position of that vertex after transformation if only the reflection was applied?

[3]

b). Show the composite matrix formulation for the above transformations considering the full scenario. [You do not need to calculate the matrix multiplication] [2]

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