

1. Why time-cost model is important in Project Management? (3)

2. What is risk analysis? (2)

3. Write down the problems of measuring risk in software project management. (5)

TT#02	Computer Graphics and Image Processing (SWE 335)	
Marks: 10		Time: 25 mins

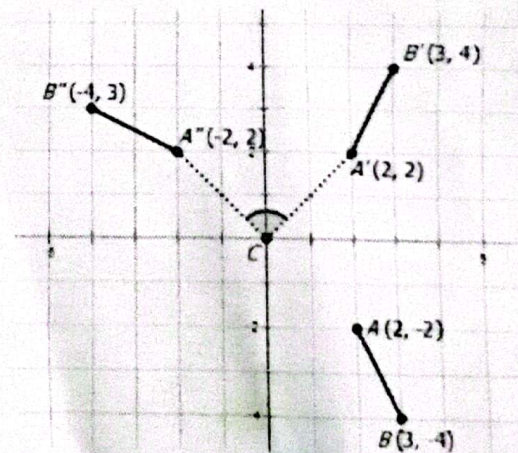
1. Find the matrix to reflect any 2D vector across $y = (-x)$. What are the new coordinates of the point $P(2,3)$ after reflection? 2

2. Show that rotation of a vector by Π has the same result as multiplication of the vector by the inversion matrix, 2

$$M = \begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix}$$

3. Describe the transformations in the diagram below. The transformation flow is defined as:
 $AB \rightarrow A'B' \rightarrow A''B''$

matrix



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IT-12

Course: Information and Network Security (SWE 429)

Mark: 10

Time: **30 mins**

1. Why is ECB mode bad with images? Explain in brief. (02)
2. Describe the General pipeline between Alice and Bob communicating using the RSA Encryption protocol. (05)
3. Decrypt the ciphertext "TQX" using the key matrix: (03)

$$\begin{pmatrix} 6 & 24 & 1 \\ 13 & 16 & 10 \\ 20 & 17 & 15 \end{pmatrix}$$