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| MONO | **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  **NATIONAL INSTITUTE OF TECHNOLOGY PATNA**  Ashok Raj Path, PATNA 800 005 (Bihar), India |
| Phone No.: 0612 – 2372715, 2370419, 2370843, 2371929, 2371930, 2371715 Fax – 0612- 2670631 Website: [www.nitp.ac.in](http://www.nitp.ac.in/) |

***CS6401 Computer Graphics Assignment***

**Assignments for Class Test Missing Students**

**Soft copy of Assignment Submission deadline: 20th May 2021**

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| **Assignment for Students missed Class Test 1** |
| 1. Prove that successive 2D rotations are additive; i.e. R(θ1) . R(θ2) = R(θ1 + θ2) 2. Show that 2D reflection through X axis followed by 2D reflection through the line Y = -X is equivalent to a pure rotation about the origin. |

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| **Assignment for Students missed Class Test 2** |
| 1. Apply the shearing transformation to square with A(0,0), B(1,0), C(1,1) and D(0,1) as given below: 2. Shear parameter value of 0.5 relative to the line yref = -1 3. Shear parameter value of 0.5 relative to the line xref = -1 4. Prove that 2D rotation and scaling commute if Sx = Sy or θ = nπ for integral n and that otherwise they do not. |

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