ME 639: Introduction to Robotics IIT Gandhinagar

Midsem Exam

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1 Task 5

Yes, they are.

2 Task 6

No, origins do not depend on particular joint positions and could also be located outside the physical link i.e. in open space

3 Task 7

Yes it is true.

4 Task 8

Yes, usually and the product is not commutative in general. Also, there might be a gimbal-lock-like situation (all three axes get in a parallel planar frame) which may not be accounted for in sequence.

5 Task 9

Yes, as it is a rigid transformation(i.e. no amplification/attenuation of component/link sizes).