

**ECE 5397/6397: Intro to Robotics**

**Class Worksheet – Lecture 10** Introduction to angular velocity, skew symmetric matrices

Pretest, define:

SO(3)

SE(3)

so(3)

Which of the following matrices are *skew symmetric*?

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Jac·o·bi·an

jəˈkōbēən/

MATHEMATICS

*adjective*

1. **1**.

of or relating to the work of the mathematician K. G. J. Jacobi.

*noun*

1. **1**.

a determinant whose constituents are the derivatives of a number of functions ( *u*,*v*, *w*, …) with respect to each of the same number of variables ( *x*, *y*, *z*, …).

Key equations today:



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**Class Worksheet – Preparation for Lecture 11**

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1. **Verify by direct calculation for**  that
2. **Verify by direct calculation**
3. **Verify by direct calculation** x