

# Lecture Comprehension, Configuration Space Representation (Chapter 2.3.2)

TOTAL POINTS 2

1. True or false? An explicit parametrization uses fewer numbers to represent a configuration than an implicit representation.

1 / 1 point

- ☒ True.
- ☐ False.



**Correct**

An explicit parametrization uses the fewest numbers to represent the configuration, while an implicit representation uses more numbers, subject to constraints.

2. A  $k$ -dimensional space is represented by 7 coordinates subject to 3 independent constraints. What is  $k$ ?

1 / 1 point

Preview

4

4



**Correct**

The number of degrees of freedom is equal to the number of coordinates minus the number of independent constraints on those coordinates.