

✔ **Congratulations! You passed!**

Grade received 100% To pass 80% or higher

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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

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.