Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1.	Consider a robot with 7 joints and a space Jacobian with a maximum rank of 6 over all configurations of the robot. At the current configuration, the rank of the space Jacobian is 5. Which of the following statements is true? Select all that apply. The robot is redundant with respect to the task of generating arbitrary end-effector twists. Correct The robot is capable of 6-dimensional twists at certain configurations, and it has more joints than needed to do so. The robot is kinematically deficient with respect to the task of generating arbitrary end-effector twists. The robot is at a singularity. Correct The rank of the Jacobian is less than the maximum possible, so the robot is at a singularity.	1/1 point
2.	Consider a robot with 7 joints and a space Jacobian with a maximum rank of 3 over all configurations of the robot. At the current configuration, the rank of the space Jacobian is 3. Which of the following statements is true? Select all that apply.	1/1 point
1.	 ☐ The robot is redundant with respect to the task of generating arbitrary end-effector twists. Consider a robot with 7 join space Jacobian is 5. Which c ☑ The robot is redundant ☑ Correct The robot is capable c 	
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