

Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1.	Which of the following statements is true about closed-chain and parallel robots? Select all that apply.	1/1 point
	For a given set of positions of the actuated joints, there may be more than one configuration of the end-effector.	
	⊙ Correct This is true for closed-chain robots, but not open-chain robots.	
	Closed-chain robots are a subclass of parallel robots.	
	Some joints may be unactuated.	
	Correct A closed-chain or parallel robot has more joints than degrees of freedom (by Grubler's formula), and typically there are no more actuators than there are degrees of freedom.	
	The inverse kinematics for a parallel robot are generally easier to compute than its forward kinematics.	
	Correct This is often true. The inverse kinematics will typically have a single solution, while the forward kinematics may have multiple solutions.	
	Parallel robots are sometimes chosen instead of open-chain robots for their larger workspace.	