Lab 4 Questions

Robotics & Automation
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Instructions. Print your name at the top of the page. Turn in this sheet at the end of lab: your lab grade will be based on your answers.

Question 1. Write each column of the space Jacobian.

$J_{s1} =$ $J_{s2} =$ $J_{s3} =$

Question 2. Write each column of the geometric Jacobian.

$J_1 =$ $J_2 =$ $J_3 =$

Question 3.

Question 4.

linear velocity	*joints contributing*	*does the answer depend on θ?*
$\dot{p}_x$		
$\dot{p}_y$		
$\dot{p}_z$		

Question 5.

Signed by lab GTA: _____

Question 6. You can use the back of this page if you need extra space.