Recommended Assessment

Inverse Kinematics

- 1. In comparison to controlling the QBot with body speeds (Differential/Arcade drive), what benefits and limitations does controlling individual wheel speeds (Tank drive) have?
- 2. What challenges did you face commanding line following using only downward facing camera feed? What strategies did you use to overcome them?
- 3. Provide the expressions for the left and right wheel speeds ($\omega_L \& \omega_R$) in terms of forward speed (ν_O) and turn speed (ω)?
- 4. Veirfy that your observations from what wheel speeds lead to forward and turn speeds for the body are consistent with the equations from question 3.