Lab 6

Q1: b.

Text, letter

Description automatically generated

Q1: c.

The accuracy of the turn and the time taken to turn are both better in the proportional controller rather than the slew rate controller. I used a slew rate of 3 and a max Power of motor of 40 to keep the robot from spinning out of control and the time taken to get to 270 degrees was 7500ms. With the proportional controller in only takes 2500ms and the accuracy is much better. The slew rate controller gave an error of 3 degrees while the proportional controller gives an error of maximum 2 degrees.