

Quiz: Gears and Speed

Introduction to Mobile Robotics > Gears and Speed Investigation

Condition	Teeth on driving gear (motor)	Teeth on driven gear (wheel)	Gear Ratio <u>driven</u> driving	Time robot traveled (sec)	Distance robot traveled (cm)	Average distance robot traveled (cm)	Average Speed (cm/sec)
Condition 1	16	32		5	1) 17.9		
					2) 19.0		
					3) 18.1		
Condition 2	8		5:1	5	1) 7.3		
					2) 7.8		
					3) 6.8		
Condition 3	40			5	1) 180.0		
					2) 186.3		
					3) 184.0		

1. Fill in all the blanks in the data table above. Use the space on this page (front, back, and additional pages if necessary) to show your work.

NAME

DATE