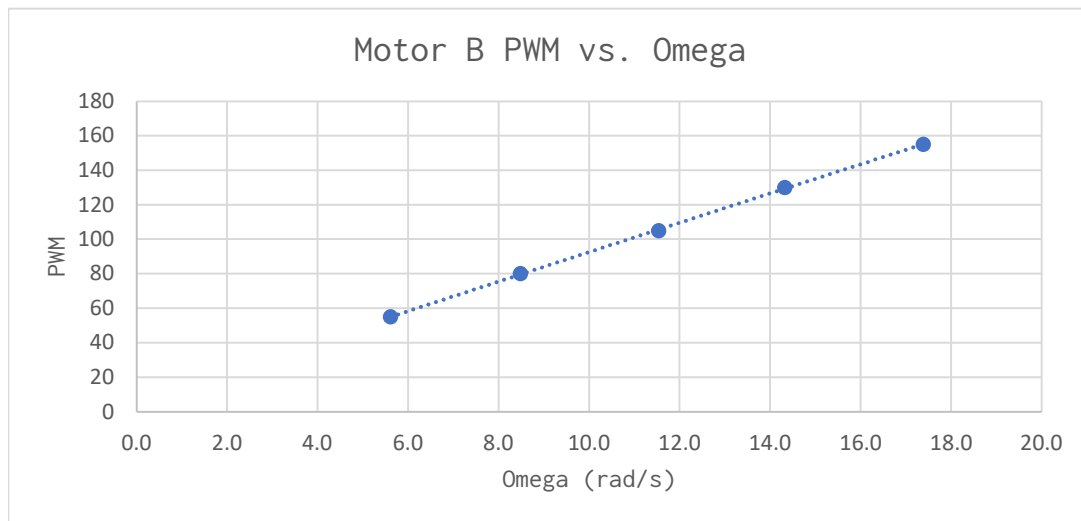


Homework #5 Problem 1, due 11/25/19.

| Motor B Battery |             |             |             |            |               |  |
|-----------------|-------------|-------------|-------------|------------|---------------|--|
| PWM             | # Turns (1) | # Turns (2) | # Turns (3) | Avg. Turns | Omega (rad/s) |  |
| 55              | 8.9         | 8.9         | 9           | 8.9        | 5.6           |  |
| 80              | 13.4        | 13.5        | 13.6        | 13.5       | 8.5           |  |
| 105             | 18.4        | 18.3        | 18.4        | 18.4       | 11.5          |  |
| 130             | 22.8        | 22.8        | 22.8        | 22.8       | 14.3          |  |
| 155             | 27.7        | 27.6        | 27.7        | 27.7       | 17.4          |  |



Equation of fit line:

$$y = -0.008x^2 + 8.681x + 6.571$$