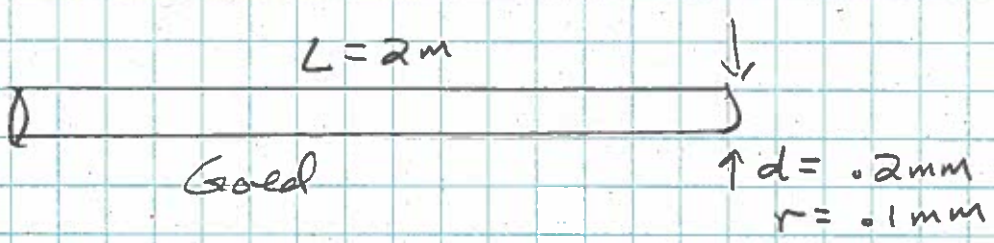
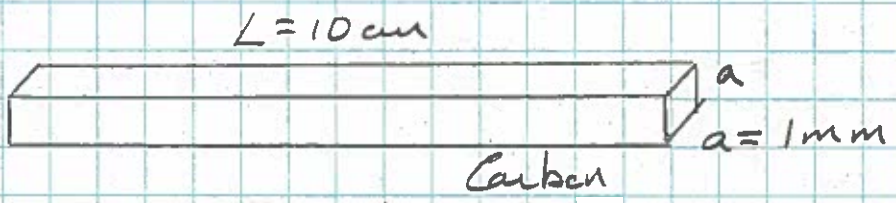
a.)



$$R = \frac{\rho L}{A} = \frac{\rho L}{\pi r^2} \qquad \rho = 2.4 \times 10^{-8}\ \Omega \cdot m$$

$$R = 1.528\ \Omega$$

b.)



$$R = \frac{\rho L}{A} = \frac{\rho L}{a^2} \qquad \rho = 3.5 \times 10^{-5}\ \Omega \cdot m$$

$$R = 3.5\ \Omega$$