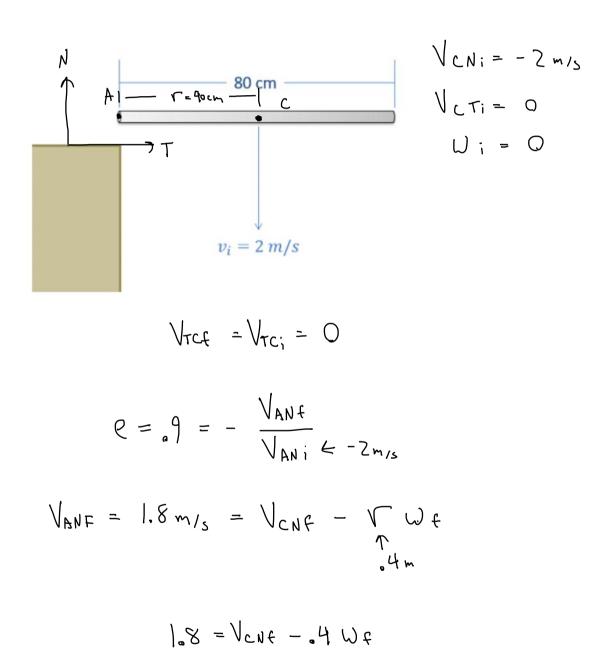
Problem 1

An 80 centimeter long 1 kilogram metal bar falling at 2 meters per second strikes the edge of a table as shown below. Assuming a coefficient of restitution of .9, what is the expected velocity and angular velocity of the bar after impact?



$$81 = \frac{\cancel{KEt}}{\cancel{KEt}}$$

$$3.24 = V_{CNf}^2 + \frac{.64}{12} W f^2$$

Use equation Solver on this equation + earlier equation

tu. solutions from equation solver

$$\sqrt{V_{cnf}} = -.9$$
 $+ W_{f} = -6.75$

would involve bor bounces without rotation

