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%% Brandon Lim
%HW4 Design of Mechanical Elements
%% Problem 4
clear,clc,close all

w = linspace(0,0.25,10);
sigmaNot = 620;
m = 0.25;

epsilon_i = log(1./(1-w));
yieldStrengthPrime = sigmaNot .* (epsilon_i.^m);

plot(w,yieldStrengthPrime);
xlabel("Amount of Cold Work")
ylabel("Yield Strength [MPa]")
title("Cold Working Amount Vs Yield Strength of 1080 Annealed Steel")
```