**Part 1:**

**Part 2:**

So equation we get is;

y = 0.4018x + 5.2997

ln(σ) = n\*ln(ε) + ln(k)

This gives **n = 0.4018**

And, ln(k) = 5.2997

**k = e5.2997 = 200.2767**

**Part 3:**

ε = 1.1

ln(ε) = ln(1.1) = 0.095310

y = ln(σ) = n\*ln(ε) + ln(k) = (0.4018\*0.095310) + 5.2997 = 5.338

**σ = e5.338 = 208.09610**

**Part 4:**

n = 0.4018

k = 200.2767