## Answer on Question #63349-Physics-Other

 $I = kV^n$ 

What does n and k represent?

Why do we log it in the first place (what does the log version help to do)?

## Answer

Logging it gives you

$$logI = log(kv^{n})$$
$$logI = logk + logv^{n}$$
$$logI = logk + n logv$$

Compare that with y = mx + c (equation for a straight line)

$$Y = \log I$$
$$m = n$$
$$x = \log v$$
$$c = \log k$$

So, plotting logI on Y axis and log v on X axis would give you a straight line with y intercept log k and gradient n.

https://www.AssignmentExpert.com