Wednesday, May 1, 2019 11:11 AM

$$(-1,5)$$
 to  $(1,5)$ 

$$= 2 \times (-1) = 5 \times (1) = 5$$

$$\frac{\partial g}{\partial n} - \frac{\partial}{\partial t} \frac{\partial g}{\partial n} = 0$$

but since g(n, i) and not g(n, i, t), it might be easier to use Beltraniss equ

$$q - \dot{n} \frac{dq}{d\dot{n}} = c$$

$$\Rightarrow n\sqrt{1+i^2} - in n 2i = 0$$

$$2\sqrt{1+i^2}$$

=> 
$$n(1+n^2) - nn^2 = c\sqrt{1+n^2}$$
  
=>  $n = c\sqrt{1+n^2}$ 

$$\Rightarrow \chi = C\sqrt{1+\lambda^2}$$

$$=) \dot{n}^2 = K n^2 - 1$$

$$=) dn = \sqrt{kn^2-1}$$

$$\Rightarrow n(t) = e^{-e_1\sqrt{k}-\sqrt{k}t}\left(e^{2\sqrt{k}(e_1tt)}+k\right)$$

$$2k$$

Now we need to plug in t=-1, n=5 and t=1, n=5to solve for k and eq