

Help me please to resolve this equation.

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- *From:* [marozeau@xxxxxxxxxx](mailto:marozeau@xxxxxxxxxx)
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Hello Every one:

I have the following equation

$$f(t) = X/(1-e^{(-t/Y)})$$

where X and Y are unknown, and  $e^z$  stand for exponential of z (e power z).

I know two points of this function. Lets says  $f(t_1) = s_1$ , and  $f(t_2) = s_2$ ; where  $t_1$  and  $t_2$  are not zeros value.

So we got two equations:

$$s_1 = X/(1-e^{(-t_1/Y)})$$

and

$$s_2 = X/(1-e^{(-t_2/Y)})$$

Two equations and two unknowns, we should be able to resolve these equations analytically, but I don't know how....

I should be fairly simple, but I am lost.

Thanks for your help.

Jeremy

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