$$H = \int e^{-1t} + \rho g$$

$$H^{c} = He^{rt} = \int + \int e^{rt} g$$

$$\lambda = e^{rt} \rho$$

$$\lambda = re^{rt} \rho + e^{rt} \rho$$

$$\lambda - r\lambda = e^{rt} \rho$$

$$= -\frac{\partial H}{\partial x}$$

$$= -\frac{\partial H}{\partial x} = e^{rt} \frac{\partial H}{\partial x} = e^{-rt} \frac{\partial H^{c}}{\partial x}$$

$$\Rightarrow \rho = e^{-rt} (\lambda - r\lambda)$$

$$= -e^{-rt} (\lambda - r\lambda)$$

$$= -e^{-rt} \frac{\partial H^{c}}{\partial x}$$

$$\Rightarrow \lambda - r\lambda = -\frac{\partial H^{c}}{\partial x}$$

Elen: mates
$$\int_{-\infty}^{\infty} (-x^2 - \frac{1}{2}n^2) e^{-rt} dt$$

 $\dot{x} = x + n$, $u \in \mathbb{R}$
 $\dot{x}(0) = 1$
 $\dot{x}(1)$ for $\Rightarrow p(T) = 0$
Also po alm nodely model;
 $\dot{y} = -n e^{-rt} + p = 0 \Rightarrow n = pe^{rt}$
 $\dot{y} = -n e^{-rt} + p = 0 \Rightarrow n = pe^{rt}$
 $\dot{y} = -t + \frac{1}{x} = 2xe^{-rt} - p$, $p(T) = 0$
 $\dot{y} = x + pe^{rt}$
 $\dot{y} = 2xe^{-rt} - p$
So Roblem 6.5.3 (strodent normal)
of changer $\dot{y} = 2xe^{-rt} - p$
 \dot{y}

$$\lambda - 1\lambda = -\frac{2 \text{ th}^{2}}{2 x}$$

$$= 2 x - \lambda$$

$$\lambda = 2 x + (x - 1) \lambda$$

$$\lambda = 2 x + (x - 1) \lambda$$

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$$\lambda$$

$$P = \lambda e^{-2t}$$

$$= \frac{\sqrt{2}}{1 + e^{2\sqrt{2}T}} e^{(\sqrt{2} - 1)t} - \frac{\sqrt{2}}{1 + e^{-2\sqrt{2}T}} e^{(-\sqrt{2} - 1)t}$$

$$B = \frac{1}{1 + e^{-2\sqrt{2}T}} \frac{e^{2\sqrt{2}T}}{e^{2\sqrt{2}T}}$$