$$\frac{\partial p(x)}{\partial t} = \frac{\partial}{\partial x} [\gamma_2 x p(x)] + k_1 \int_0^x dx' w(x,x') p(x').$$

where w(x,x') = w(x-x') = y(x-x') - s(x-x').

$$\frac{\partial p(x)}{\partial t} = 0 \Rightarrow -\frac{\partial}{\partial x} [x p(x)] = a w * p(x)$$

Laplace
$$5 \frac{\partial \hat{p}(s)}{\partial s} = \alpha \hat{w}(s) \hat{p}(s)$$

 $V(x) = \frac{1}{b} \exp(-\frac{x}{b})$ - exponential distribution

$$\hat{w}(z) = \int_{\infty}^{b} \left(\hat{p} \exp\left(-\frac{p}{x}\right) e^{-2x} - g(x) e^{-2x} \right) dx$$

$$= \int_{\infty}^{b} \left(\hat{p} \exp\left(-\frac{p}{x}\right) e^{-2x} dx \right)$$

$$=\frac{1}{b}\frac{1}{5+\frac{1}{b}}(0-1)-1$$

$$= \frac{1}{b} \frac{1}{5 + \frac{1}{b}} - \frac{5b+1}{b(5+\frac{1}{b})}$$

$$=-\frac{S}{S+\frac{1}{5}}$$

$$S = \frac{\partial \hat{p}}{\partial S} = Q \hat{w} \hat{p}$$

$$\frac{\partial \hat{p}}{\hat{p}} = \alpha \hat{w} \frac{\partial S}{S}$$

$$\ln \hat{p} = \alpha \frac{-s}{s + \frac{1}{h}}$$

$$\hat{p}(0) = 1 \Rightarrow \hat{p}(5) = (5 + \frac{1}{b})^{-a}$$

$$-\frac{9x}{9}[xb(x)] = \sigma \int_{x}^{0} qx, \, M(x-x,) \, c(x,) \, b(x,)$$

Laplace
$$\hat{S} = \alpha \left(\frac{-S}{S + \frac{1}{b}} \right) \mathcal{L}[c \cdot p]$$

$$= \alpha \left(\frac{-S}{S + \frac{1}{b}} \right) (\hat{c} \times \hat{p})$$

$$\frac{\partial \hat{p}}{\partial s} = \alpha \left(\frac{-1}{s + \frac{1}{b}} \right) (\hat{c} * \hat{p})$$

$$\frac{x(s+\frac{1}{b})}{5} \cdot 5 \cdot \frac{\partial \hat{p}}{\partial s} + \frac{1}{b} \cdot \frac{\partial \hat{p}}{\partial s} = -\alpha \cdot \hat{c} \cdot x \cdot \hat{p}$$

$$\frac{\partial x}{\partial y}(xb) + \frac{p}{xb} = acb$$

$$\frac{\partial x}{\partial y}(xb) + \frac{p}{xb} = acb$$