$$\int_{3c} \frac{dy}{dx} = \int_{3c} (x,y) \qquad y(x_0) = y_0$$

$$\int_{3c} \frac{dy}{dx} = \int_{3c} g(x) dx \qquad f(x,y) = h(y)g(x)$$

$$\int_{\mathbb{R}} e^{-x^{2}} dx = \int_{\mathbb{R}} \pi$$

$$\int_{\mathbb{R}} e^{-ax^{2}} dx = \int_{\mathbb{R}} \pi$$

$$\int_{\mathbb{R}} e^{-ax^{2}/2} dx = \int_{\mathbb{R}} \pi$$

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$$\frac{\partial u}{\partial t} = \frac{\partial u}{\partial x} \qquad u(x, 0) = f(x)$$

$$u(x, t) \cdot \text{ Diff eq}^{-1} \text{ is invariant under}$$

$$t' = \lambda t; \quad \chi' = \int X \qquad u' = \lambda^{\frac{1}{2}} u$$

$$\xi = \frac{2c}{\sqrt{c}} \qquad : \quad \varphi = U \int C \qquad \varphi(x)$$

$$\varphi = \varphi(x) \quad \text{or} \quad U C = \varphi(x)$$

$$U(x, t) = \frac{1}{\sqrt{c}} \varphi(x)$$

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O Invariant

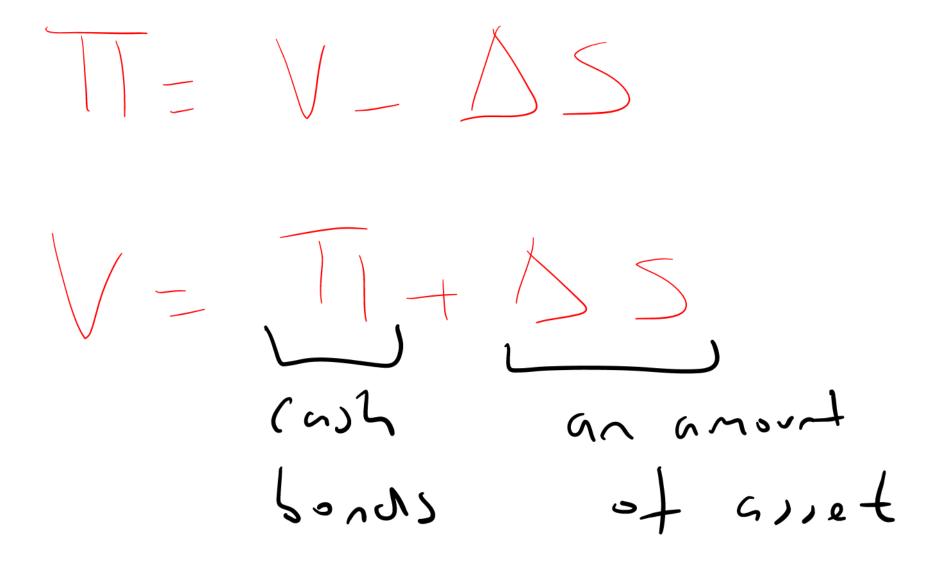
$$d = -\frac{1}{2}$$
 $p = \frac{1}{2}$
O Similarity $d = -\frac{1}{2}$

$$\int u(x,t) dx = \frac{1}{2}$$

$$\int \varphi(x,t) dx = \frac{1}{2}$$

$$= \int_{\mathbb{R}} \varphi(x,t) dx = -\frac{1}{2}$$

indep. of time



1 ds = -) Jt (4,2 B(t) = Be

$$\frac{2\sqrt{3\mu(k-k)}}{3k} = \frac{5}{7}(2\sqrt{3}) + (M-\frac{5}{7}(2))(4-\frac{5}{7})\sqrt{32(4)}$$

$$\frac{9k}{9k} = \frac{5}{7}(2\sqrt{3}) + (M-\frac{5}{7}(2))(4-\frac{5}{7})\sqrt{32(4)}$$

(1) Write
$$p = p(1,t)$$
 of $p(\xi,t)$ $\xi = los S$ $\frac{\partial \xi}{\partial s} = \frac{1}{S}$ $\frac{\partial r}{\partial s} = \frac{1}{S}$ $\frac{\partial r$

2)
$$X = \begin{cases} \frac{1}{2} + \frac{1}{2} \\ \frac{1}{2} + \frac{1}{$$

Asset or へってんぶり (ash not Pasoff = H (s-E) =

$$\begin{cases} x : & & \\ & &$$

option

$$|0\rangle \phi + \psi = 0$$
 $|0\rangle \phi + \psi = 0$
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$$V_0 = S(0) \times d + 4 \times 1 = [1.2]$$

$$S(0) = \frac{e^t s - s_2}{s - s_2} \qquad S(3000) = \frac{s_0 - e^t s}{s - s_2}$$

$$V_0 = \frac{s_0}{s - s_2} \qquad S(3000) = \frac{s_0}{s - s_0}$$

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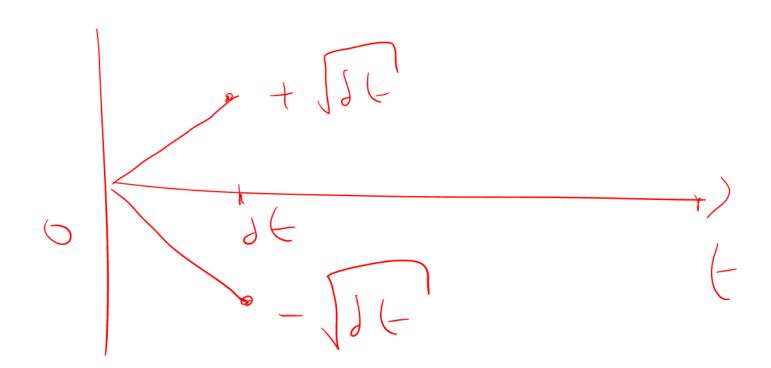
$$V_0 = \frac{s_0}{s - s_0} \qquad S(3000) = \frac{s_0}{s - s_0}$$

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$$\begin{pmatrix}
2 \\
5
\end{pmatrix}, \frac{2}{5}$$

$$F = 0$$



	•	