Stack S(t) $\frac{dJ}{S} = \mu dt + \sigma dx$ $\frac{dJ}{S} = \mu dt + \sigma dx$ $\frac{dJ}{S} = \lambda dt$ $\frac{dJ}{S} = \lambda dt + \sigma dx$ $\frac{dJ}{S} = \lambda dt$ $\frac{dJ}{S} = \lambda dt$ M(2+72) = A(2) + M/ 72+ 1/ 9/55 9/55 9/2 = 3/2 (92)+ 7 = 3/2 9/2 152 = m/s dt + 2 m s dxdt + 5 s dt 52 = 62 52 dt = 6(dt 3/2) 97,= 0,2,94

Case 2: Integrate over (t, t+&t) F+9F = 1 = (h-5g) 8+ + 2 \$ (2) Case J: Integrate au [0,T] J= J= (h-1e) T+ QAJT)

du=-8udt+5dx du+8 m dt = 0 dx X tho by 1. F et (du+ du H)= 5ed> d(extu)
htes out vive,
ove (o, t) $\int_{e^{3}}^{t} d(e^{3}u_{s}) = \sigma \int_{e^{3}}^{t} dx$ $= \sigma \int_{e^{3}}^{t} e^{3} dx$

$$d(e^{\gamma t}u)$$

$$e^{\gamma t}d(u) + u d(e^{\gamma t})$$

$$d(e^{\gamma t}) = \gamma e^{\gamma t}$$

$$d(e^{\gamma t}) = \gamma e^{\gamma t} d(e^{\gamma t})$$

er (2) - 0° = 2) e 9x, $O_{+} = C_{+} - C$

ds = A(5,t) It + D(5,t) IX [3)= Adt W(3)=W(3) $- \prod V \setminus V \left(J \times \right)$ - Mat

ds = A(s,t)dt + D(s,t)dx $y_{t+1} - y_t = A(s,t)dt + D(s,t)[x_{t+1} - x_t]$

$$\frac{1}{2} \frac{d^{2}}{dr^{2}} - \gamma \frac{d}{dr} \left((r-r)p \right) = 0$$

$$\frac{1}{2} \frac{d^{2}}{dr^{2}} - \gamma \left((r-r)p \right) = 0$$

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$$\frac{1}{2} \frac{d^{2}}{dr$$

$$N(x) = \frac{1}{2\pi} \int_{-\infty}^{x} e^{-\frac{1}{2}x^2} dx$$

$$= P(X < x)$$

$$(2) \vee (2) \vee (2)$$

$$d^{2}$$
 $n/n = 1$ \rightarrow $x = \sqrt{\frac{12}{2}}$

$$\left(\frac{12}{n}\right) \left(\frac{2}{2} \operatorname{RAND}(1) - \frac{1}{2}\right) \sim N(-,1)$$

$$\lim_{n \to \infty} \frac{2}{n} \operatorname{RAND}(1) - n \times \frac{1}{2} = \frac{2}{n} \times \frac{1}{2} \times \frac{1}{2}$$

$$\left(\frac{12}{n}\right) \left(\frac{2}{2} \operatorname{RAND}(1) - n \times \frac{1}{2}\right) = \frac{2}{n} \times \frac{1}{2}$$

$$\left(\frac{12}{n}\right) \left(\frac{2}{n}\right) \times \frac{1}{2}$$

$$\left(\frac{12}{n}\right) \left(\frac{2}{n}\right) \times \frac{1}{2}$$

$$\left(\frac{12}{n}\right) \times \frac{1}{2}$$

$$E[\xi] = 0 = E[\xi]$$

$$E[\xi] = 1 = E[\xi]$$

$$E[\xi] = E[\xi$$

$$E(\varphi_{\lambda}^{2})=1$$

$$E(A \varepsilon_{1}+p\varepsilon_{2})^{2})=1$$

$$E(A \varepsilon_{1}+p^{2}\varepsilon_{1}^{2}+2dp\varepsilon_{1}\varepsilon_{1})=1$$

$$P^{2}+p^{2}+2dp\times 0=1$$

$$P^{2}-(1-p^{2})$$

$$|f_{0}| = \frac{1}{9n} + \frac{97}{9n} + \frac{5}{16} = \frac{91}{9n} + \frac{97}{9n} + \frac{97}{9n$$