

Exercises and solutions

QUESTION

Show that if $W(t)$ is a Brownian motion, then Itô's lemma implies the following results:

(i) $\int_0^t W^2 dw = \frac{1}{3}W^3 - \int_0^t W dt$

(ii) $\int_0^t t dW = tW - \int_0^t W dt$

ANSWER

Itô's lemma for $f(x, t)$

$$df = \frac{\partial f}{\partial t} dt + \frac{\partial f}{\partial x} dx + \frac{1}{2} \frac{\partial^2 f}{\partial x^2} (dx)^2 + \dots$$

Let $x = w$ so that $dx = dw$, $(dx)^2 = (dw)^2 = dt$.

(i) Consider $f = \frac{1}{3}w^3$

$$\begin{aligned} d\left(\frac{1}{3}w^3\right) &= 0 \cdot dt + \frac{\partial}{\partial w}\left(\frac{1}{3}w^3\right)dw + \frac{1}{2} \frac{\partial^2}{\partial w^2}\left(\frac{1}{3}w^3\right)dt \\ &= w^2 dw + w dt \end{aligned}$$

Therefore

$$\begin{aligned} \int d\left(\frac{1}{3}w^3\right) &= \int w^2 dw + \int w dt \\ \Rightarrow \frac{1}{3}w^3 &= \int_0^t w^2 dw + \int_0^t w ds \end{aligned}$$

Since $w(0) = 0$ as it's Brownian.

we

$$\int_0^t w^2 dw = \frac{1}{3}w^3 - \int_0^t w ds$$

we consider $f = w$

$$\begin{aligned} d(w) &= \frac{\partial w}{\partial t} dt + \frac{\partial w}{\partial w} dw + \frac{1}{2} \frac{\partial^2 w}{\partial w^2} (dw)^2 + \dots \\ &= 0 \cdot dt + 1 \cdot dw + \frac{1}{2} \cdot 0 \cdot dt + \dots \\ &= dw \\ \Rightarrow w &= \int_0^t w ds + \int_0^t w ds \end{aligned}$$

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