Dewir Processus stochastique

$$E(21Y) = E(21Y=0)^{1}(Y=0) + E(21Y=1)^{1}(Y=1)$$

$$\frac{1}{P(y=0)} = (1(y=0)^2)$$
 $\frac{1}{P(y=1)} = (1(y=1)^2)$

$$P(Y=1)=P(44242)=F_2(2)-F_2(1)$$

= $(1-e^{-2})-(1-e^{-1})$

$$E(1_{(Y=1)}^{2}) = \int_{0}^{+\infty} E(H(2)) = \int_{0}^{+\infty} H(z) e^{-z} dz = \int_{-\infty}^{+\infty} \frac{1}{[1,2]} \frac{1}{3} z^{-\frac{3}{2}} dz$$

=
$$\int_{1}^{2} 3e^{-2} d3 \left(\frac{\text{partie}}{\text{partie}} \right)$$

$$\frac{E((1/4)/2)}{P(1/4)} = P^{2}$$

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$$\frac{$$

$$1_{(Y=1)} = \begin{cases} 1 & \text{si} \quad Y(w) = 1 \\ 0 & \text{si} \quad Y(w) = 0 \end{cases} = Y$$

$$y = \frac{1}{[1,2]}(2) = H(2)$$
 donc $y \in \mathcal{T}(2)$ - mosurable

$$= \frac{1}{E(1_{B}C)(1-1_{B})} + \frac{1}{E(1_{A}B)} + \frac{1}{B}$$

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$$= \frac{1}{E(1_{B}C)(1-1_{B})} + \frac{1}{B} = \frac$$

$$AA/AB = P(A/B^c)(I-I_B) + P(A/B)I_B$$

= $(P(A/B) - P(A/B^c))I_B + P(A/B^c)$

possons
$$F_n = J(x_1, \dots, x_n)$$
 $n \neq 1$

of the properties of the filtration (F_n) and F_n adapter at the filtration (F_n) and F_n are F_n and F_n and F_n and F_n and F_n are F_n and F_n and F_n and F_n are F_n and F_n and F_n and F_n are F_n are F_n and F_n are F_n are F_n and F_n are $F_$

$$|Y_{n}| \leq \sum_{h=1}^{n} |x_{n}| = D E(|Y_{n}|) \leq \sum_{h=1}^{n} E(|x_{n}|)$$

$$= D E(|Z_{n}|) \leq E(|Y_{n}|) + \sum_{h=1}^{n} |E(|x_{n}|)| \leq \sum_{h=1}^{n} |E(|x_{n}|)|$$

$$\begin{aligned}
& \overline{E}(X_{n}^{2}) \underset{b=1}{\overset{2}{\downarrow}} E(X_{b}^{2}) = A F_{n}^{X} - measure. & \\
& \overline{E}(T_{n}) \underset{b=1}{\overset{2}{\downarrow}} E(X_{b}^{2}) = A F_{n}^{X} - measure. & \\
& \overline{E}(T_{n}) \underset{b=1}{\overset{2}{\downarrow}} E(X_{b}^{2}) + \frac{2}{J_{n-1}} E(X_{b}^{2}) \\
& \underbrace{F}(X_{n}) \underset{b=1}{\overset{2}{\downarrow}} X_{b} \underset{b=1-n}{\overset{2}{\downarrow}} E(X_{b}^{2}) + \underbrace{F}(X_{b}^{2}) \underbrace{F}(X$$

Exacicod: (20-21)