Exo 9: Sait
$$g_{1}$$
, g_{m} are suite de v.a. r. rid ty $f(g_{1}) = 0$

On pase $g_{m} = \sum_{i=1}^{m} g_{i}$, $f_{m} = \sigma(g_{1}, ..., g_{m})$

1) if $f(g_{1}) = g_{m}$. Montrows que $g_{m} = g_{m}^{2} - m \cdot f(g_{2})$

est une marking de adaptée à f_{m}

mesurableté - intégrableté de g_{m} : pas au puillème.

Hr. $f(g_{m} + g_{m}) = f(g_{m} + g_{m}) \cdot f(g_{2})$
 $f(g_{m} + g_{m})^{2} - g_{m}$
 $f(g_{m} + g_{m})^{2} - g_{m}$

$$= \int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \left[\frac{1}{2} \int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \frac{1}{2} \int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \frac{1}{2} \int_{\mathbb{$$

Probability: Marking de a temp discrets Ex = 9: (S_i) isid, centres, $S_m = Z = S_i$, $m \ge 1$ I) $\mathbb{E}(\xi_1^2)$ $\leq 10^{-10}$ of $\mathbb{V}_m = S_m^2 - m \mathbb{E}(\xi_1^2)$ at une -1762) It 2 15i 26 pour 7 fixe. $\int_{m} = \frac{e^{2S_{h}}}{\left(E\left(e^{2S_{h}}\right)\right)^{m}} \quad \text{st ene } MG$ i) N_m est (T_m) - mesonelle? $T_m = T(S_{1/7}, S_m)$ hast barelienne en continue en fonction exponentielle. Donc Um et forden de (Estin Em) done Trumerendle

ii)
$$\int_{M} e^{\frac{1}{2}t} \sin e^{\frac{1}{2}t} \int_{e^{\frac{1}{2}t}}^{\infty} \left[e^{\frac{1}{2}t} \right] dt = \left[e^{\frac{1}{2}t} \right] \int_{e^{\frac{1}{2}t}}^{\infty} \left[e^{\frac{1}{2}t} \right] dt = \left[e^{\frac{1}{2}t} \right] \int_{e^{\frac{1}{2}t}}^{\infty} e^{\frac{1}{2}t} \int_{e^{\frac{1}2t}}^{\infty} e^{\frac{1}{2}t} \int_{e^{\frac{1}2t}}^{\infty} e^{\frac{1}{2}t} \int_{e^{\frac{1}2t}}^{\infty} e^{\frac{1}{2}t} \int_{e^{\frac{1}2t}}^{\infty} e^{\frac{1}{2}t} \int_{e^{\frac{1}2t}}^{\infty} e^{\frac{1}2t} \int_{e^{\frac{1}2t}}^{\infty} e^$$

dow
$$F = \frac{e^{2S_{m}} + 2E_{mH}}{(E(e^{2S_{m}})^{mH})} T_{m}$$

$$= E = \frac{e^{2S_{m}}}{(E(e^{2S_{m}})^{mH})} T_{m} + E = \frac{e^{2S_{mH}}}{(E(e^{2S_{m}})^{mH})} T_{m}$$

$$= \frac{1}{(E(e^{2S_{m}})^{mH})} E = \frac{1}{(E(e^{2S_{m}})$$

Papel: $f: X \text{ et } Y \text{ on mine los, or a: } A = \frac{1}{13}$ f: (h(x)) = f: (h(x)), f: A homee f: (h(x)) = f: (h(x)), f: A homee f: (h(x)) = f: (h(x)), f: A homee f: A homee