F-Some without compalarity (no fixed bugant)

$$p(x; o) = \frac{1}{2} x^{2} e^{-x} (x > 0) (g \text{ summe density})$$

$$p(x; o) = \frac{1}{2} p(x - \theta) (x > \theta)$$

$$5es^{\infty}(R) \quad \theta \mapsto \int f(x) p(x; o) do = \frac{1}{2} \int f(x) (x^{2} - 0)^{2} e^{-(x - \theta)} dx$$

$$\frac{d}{dr} \int f(x) p(x; o) = \int \frac{1}{2} \int f(x) \left[ 2(x - \theta) e^{-(x - \theta)} + (x - 0)^{2} e^{-(x - \theta)} \right] dx$$

$$= \int \int f(x) \left[ \int (x - \theta) + (x - \theta)^{2} \right] e^{-(x - \theta)} dx$$

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