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fry = dy fry = dy fx (h'(y)) = fx(h'(y)) · [h'(y)]' = fr (h-1/4) - h'ch-1/4) eg.  $X \sim \text{Exponential}(f), Y = X^2, f(y) = ?$  $f_{Y}(y) = f_{X}(h^{-1}(y))$ .  $h'(h^{-1}(y))$   $0 \cdot y = h(x) = x^{2}$ , h'(x) = 2x,  $h^{-1}(y) = \sqrt{y}$ .  $0 + f(x) = \lambda e^{-\lambda x}$ 3 frcy ) = 5.e - 5/9. 1 3). 2~ N(0,1). Y=11162, Hen YN(11.62). examples. P. 32.