Lecure 1.

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P($a \le 2 \le 6$) = $\phi(b) - \overline{\phi}(a)$ N((a, σ))

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2) Cherchus 60

$$\frac{1}{4}$$
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$$Von(X) = E(x^{2}) - \{E(X)\}^{2}.$$

$$E(X^{2}) = \int_{-\infty}^{+\infty} x^{2} f_{X}(x) f$$

 $F_{\lambda}(y) = P \left(\begin{array}{c} y = y \\ y = y \\ y = y \end{array} \right)$ $= P \left(\begin{array}{c} y = y \\ y = y \\ y = y \end{array} \right)$ $= P \left(\begin{array}{c} y = y \\ y = y \\ y = y \end{array} \right)$ $= F_{\lambda}(w) = 1$ $= F_{\lambda}($

rdered Fx(u)= >0 1 x <0 1 x x > 2 2 1 1 0 < x < 2 Revenues à Fy: On a, ey <4 d'min <19 Fy(y) = Fx(ry) - Fx(-18) Fy(y) = (x) -0 = y In la Mite F, (y) =) y 10 = (y) = (E(x)) = 2 A Si 474

\(\frac{1}{2}\) \(\frac{1}{2}\

Si 2 (o ,
$$F_{x}(x) = 0$$
 $F_{x}(x) = P(x) = P(x)$
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Ent $y \in \mathbb{R}$ $F_{1}(y) = \mathbb{P}\left(\frac{1}{2} - \frac{1}{2}\right) = \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2}\right) = \frac{1}{2} \left(\frac{1}{2}\right) = \frac{1$