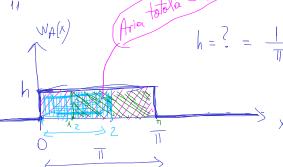


b) 
$$P(A \in [3,7]) = \frac{5}{11}$$

c). 
$$P(A : w_{par}) = \frac{5}{11}$$



$$V_{A}(x) = \begin{cases} 0 / x & \text{in } \\ 1 / x & \text{in } \end{cases}$$

c). 
$$P(A \in (0,2)) = \int_{0}^{2} W_{A}(x) dx = \frac{2}{\pi}$$

b), 
$$P(A > 1) = \begin{cases} w_{A}(x) dx = \frac{1}{11} \\ w_{A}(x) dx = \frac{1}{11} \end{cases} = \frac{(11-1)}{11}$$

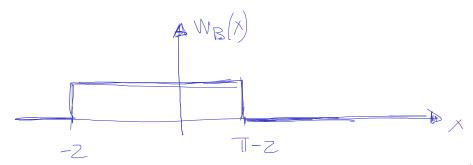
$$\int w_{A}(x) dx = \int \frac{1}{11} dx = \frac{1}{11} \cdot x \Big|_{1}^{11} = \frac{11-1}{11}$$

$$\varphi$$
).  $\mathcal{F}_{A}(x) = P(A \leq x)$ 

$$+_{A}(x) = \begin{cases} 0 / x \leq D \\ 1 / x \neq x \in [0, T] \\ 1 / x \geq T \end{cases}$$

$$F_{A}(1) = P(A \le 1) = \int_{-\infty}^{1} = \frac{1}{\pi}$$
 $F_{A}(3) = P(A \le 3) = 3/\pi$ 
 $F_{A}(1) = P(A \le 1) = 1$ 
 $F_{A}(1) = P(A \le 1) = 1$ 
 $F_{A}(2) = P(A \le 2) = \frac{2}{\pi}$ 

e). 
$$B = A - 2$$



$$P(A \in [z, 4]) = \int_{W_A(x)}^{4} dx$$

$$= \frac{1}{f_{A}(4)} - \frac{1}{f_{A}(2)} = 0.74 - 0.58 = 0.16$$

$$P(A \le 4) \qquad P(A \le 2)$$

$$\overline{F(x)} = \frac{1}{2} \left( 1 + \operatorname{erf} \left( \frac{x - \mu}{\sqrt{x}} \right) \right)$$

$$F_{A}(4) = \frac{1}{2} \left( 1 + \text{erf} \left( \frac{4 - 1}{\sqrt{20 \cdot \sqrt{2}}} \right) = 0.74$$

$$\overline{f_A}(z) = \frac{1}{2} \left( 1 + \text{erf}\left(\frac{2-1}{\sqrt{40}}\right) \right) = 0.58$$

$$P(A > 1) = \begin{cases} w_{A}(x)dx = F_{A}(0) - F_{A}(1) = 1 - \dots = 1 \\ P(A \leq \infty) \end{cases}$$

$$P(A < I) = \int_{-\infty}^{L} = \overline{f_A(I)} - \overline{f_A(-\infty)} = \overline{f_A(I)} = \overline{f$$

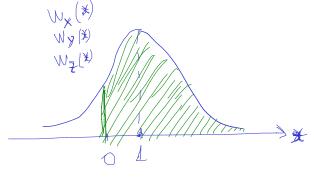


$$R: \mathcal{N}(\mu=1, \sqrt{2}=20)$$

$$R: \mathcal{N}(\mu=-1, \sqrt{2}=20)$$

Max se atinge of 
$$X = M = 1$$
 /  $2$   $\frac{1}{2\sigma^2} = \frac{1}{\sqrt{21}} = \frac{1}{\sqrt{21}}$ 

$$\mathcal{N}(\mu = 1, \nabla^2 = 1)$$



$$P(X>0 \text{ si } Y>0 \text{ si } 2>0) = ?$$

$$P(\times > 0) \cdot P(\times > 0) \cdot P(\times > 0) = (0.84)^3 = \dots$$

$$\frac{1}{0.84} = \frac{1}{0.84} = \frac{1}{0.84} = \frac{1}{2} \left(1 + \text{enf}\left(\frac{0-1}{1.12}\right)\right) = \frac{1}{2} \left(1 + \text{enf}\left(\frac{0-1}{1.12}\right)\right)$$

