$$\begin{cases}
f(x) = k \cdot x & \text{what is } k ? \\
f(x) = k \cdot x & \text{what is } k ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = k \cdot x & \text{what is } k ? \\
f(x) = k \cdot x & \text{what is } k ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for } k \cdot x ? \\
f(x) = (1) & \text{for$$

 $X = \{1, 2, 3, 4043\}$

PMF
$$\frac{x=1}{1}$$
 $\frac{x=2}{2}$ $\frac{x=3}{3}$ $\frac{x=4043}{1}$ $\frac{x=1}{4049}$ $\frac{x=2}{4049}$ $\frac{x=2}{4049}$ $\frac{x=3}{4049}$ $\frac{x=4049}{1}$ $\frac{x=2}{4049}$ $\frac{x=3}{4049}$ $\frac{x=4049}{1}$ $\frac{x=2}{4049}$ $\frac{x=4049}{1}$ $\frac{x=2}{4049}$ $\frac{x=2}{40$

$$CDF(x) = \int PDF(t) \begin{cases} t = -\infty \end{cases}$$

$$CDF(1) = Find accus
from x = -5

up to 1

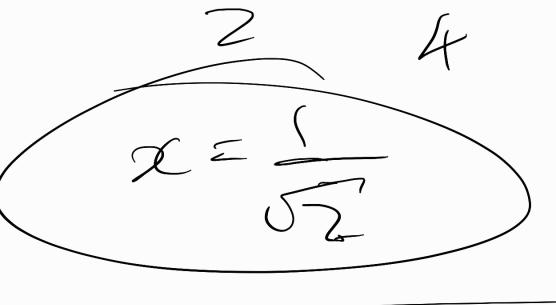
$$f(x) = \begin{cases} x & \text{if } 0 \le x \le 1 \\ 0 & \text{else} \end{cases}$$

$$CDF(x) = \begin{cases} 2x - \frac{x^2}{2} + C \text{if } 1 < x \le 2 \end{cases}$$

$$CDF(x) = \begin{cases} 2x - \frac{x^2}{2} + C \text{if } 1 < x \le 2 \end{cases}$$

$$C = \begin{cases} 1 & \text{if } x \ge 2 \end{cases}$$$$

4-2+c=1Jegoes up 2x-2-1/14x52 CDF(x)= medim=
median DF(x)=



uniform distribution:

$$X = \{1, 2, 3, 4, 5, 6\}$$

$$f(x) = \frac{1}{6} < \frac{1}{6}$$
withorm!!

 $|f(x) = k \cdot x^2 - find k$

Probability measure on X X = (g(1) = k.12 $g(2) = \left(\frac{2^2}{2} \right)$ g(3) = 32 k g(4) = 42 k g(5) = 526 $g(6) = 6^{2}$ 36 915

$$g(6) = \frac{36}{91}$$

$$f(x) = \frac{1}{6}$$

$$CDf_{\frac{x=1}{16}} = \frac{x=2}{216} = \frac{x=2}{36} = \frac{x=4}{16} = \frac{x=5}{516} = \frac{x=6}{616}$$

$$CDf_{\frac{x=1}{16}} = \frac{1}{91} = \frac{5}{91} = \frac{1}{91} = \frac{1}{91} = \frac{1}{91}$$

$$Q(x) = \frac{1}{91} = \frac{1}{91} = \frac{1}{91} = \frac{1}{91}$$

probabilities Says