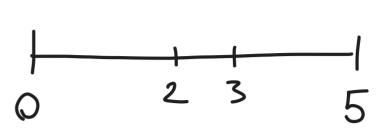
Continuous rv

$$P(14x<2)=P$$

Wait Gime X



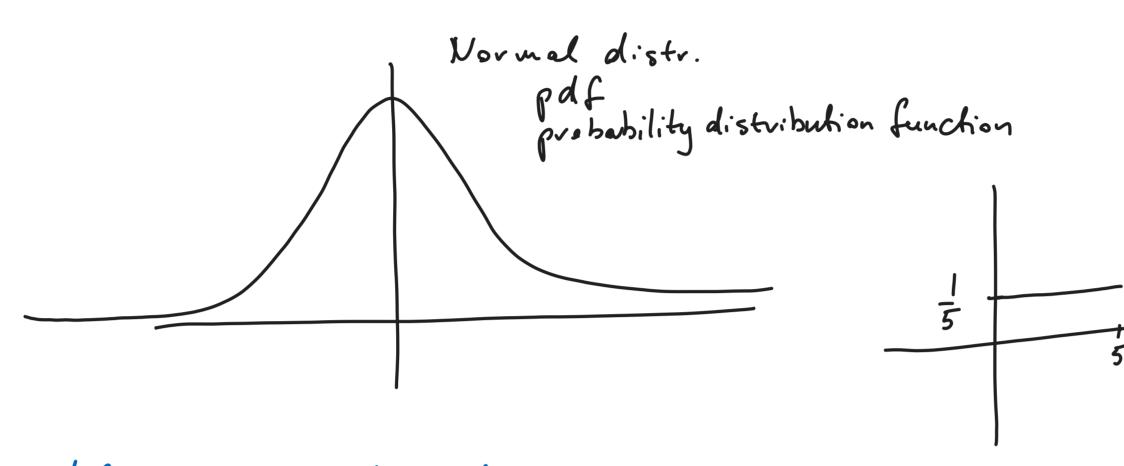
Continuous uniform distribution

$$P(2) = 0$$

$$P(0 \le x \le 5) = 1$$

$$P(2.5 \leq \times) = 0.5$$

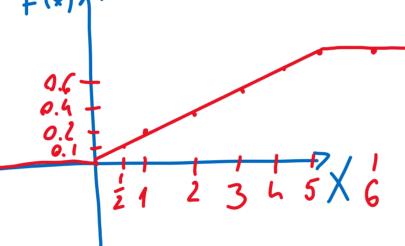
$$P(24\times43) = 0.2$$



Cdf: cumulative distribution function

$$F(x) = P(x < X)$$

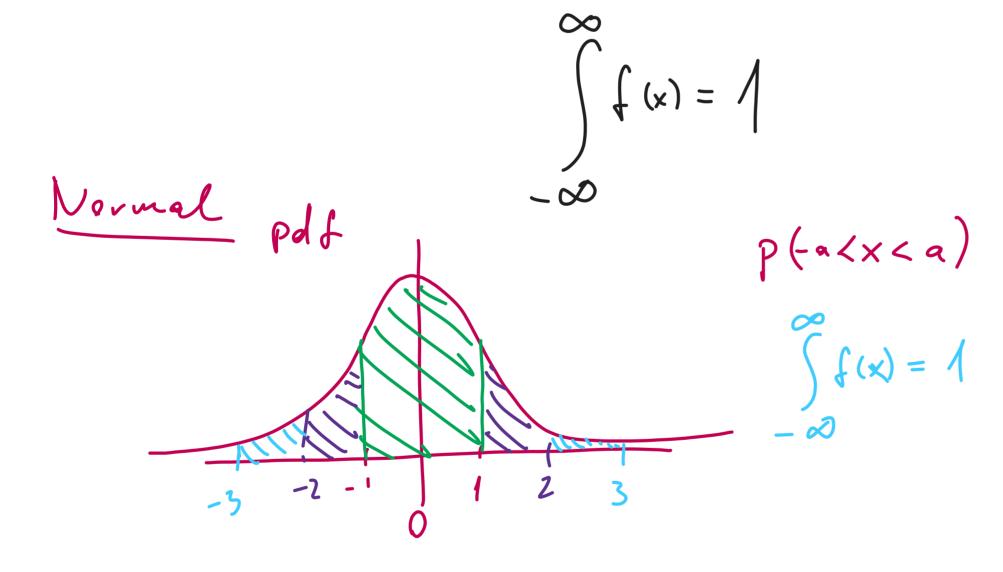
$$F(x) \uparrow$$



Pdf: probability distribution function
$$F'(x) = f(x) \quad oz \quad \frac{2}{1/1/10.2} \quad \rho = 0.2 \cdot 2 = 0.4$$

$$P(a < x < b) = \int_{-\infty}^{\infty} f(x) dx$$

area under the curve



1. define cdf)

2. pdf is just the derivative of cdf

