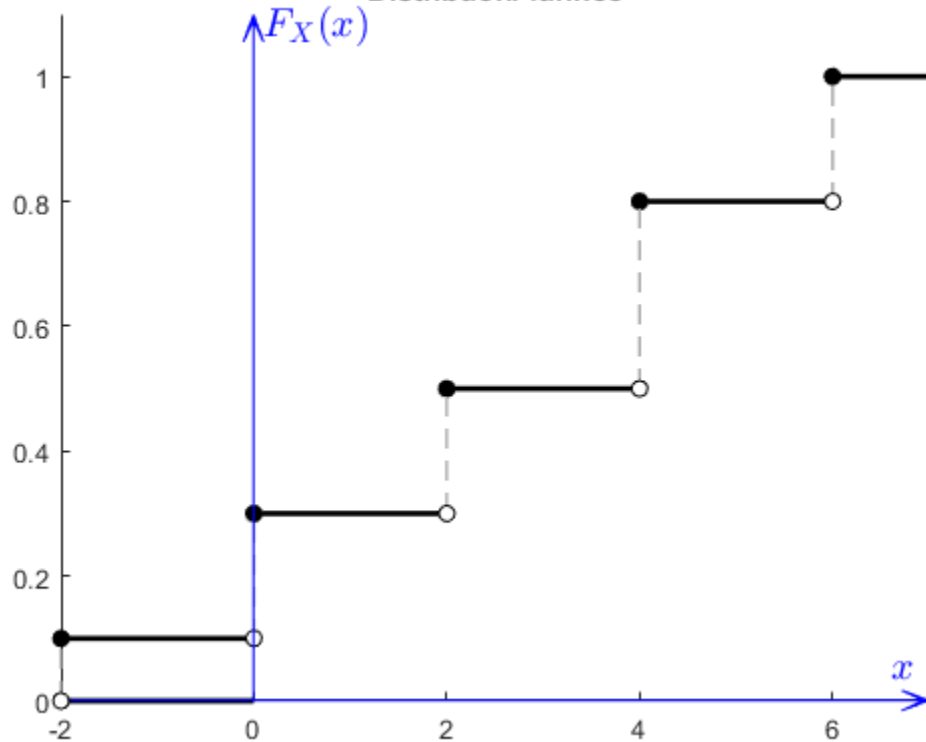


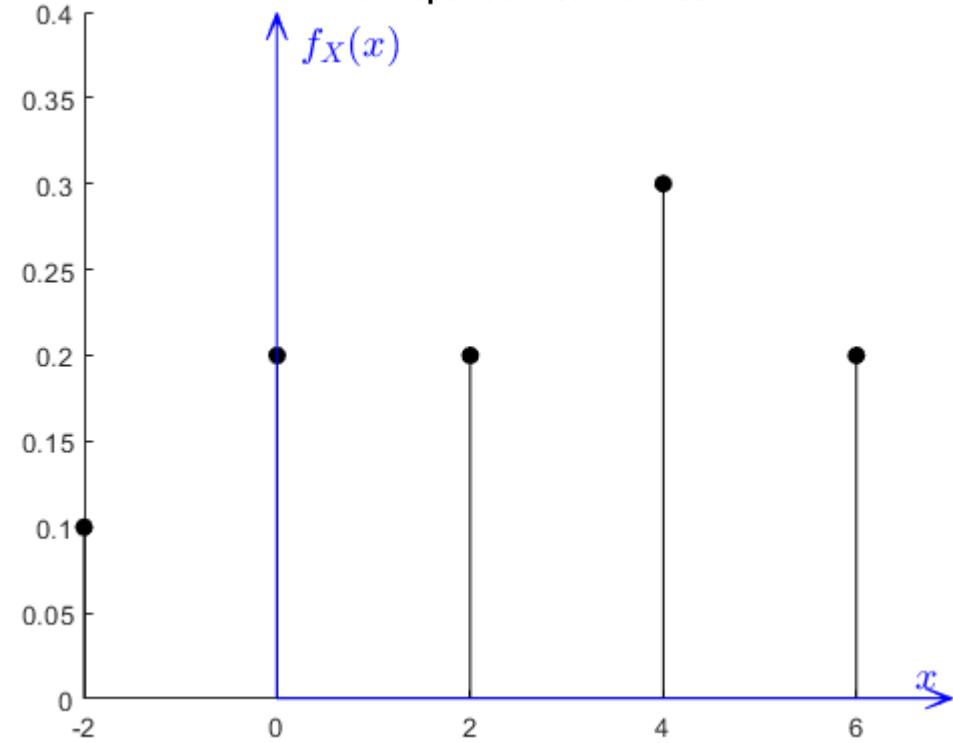
$$F(x) = \begin{cases} 0 & x < -2 \\ 0,1 & -2 \leq x < 0 \\ 0,3 & 0 \leq x < 2 \\ 0,5 & 2 \leq x < 4 \\ 0,8 & 4 \leq x < 6 \\ 1 & x \geq 6 \end{cases}$$

- a) $f(x)$
- b) Graficky $f(x)$ a $F(x)$
- c) $E[X]$
- d) $D[X]$
- e) Medián
- f) Modus
- g) Q1, Q3
- h) IQR
- i) R
- j) Min, max

Distribuční funkce



Pravděpodobnostní funkce



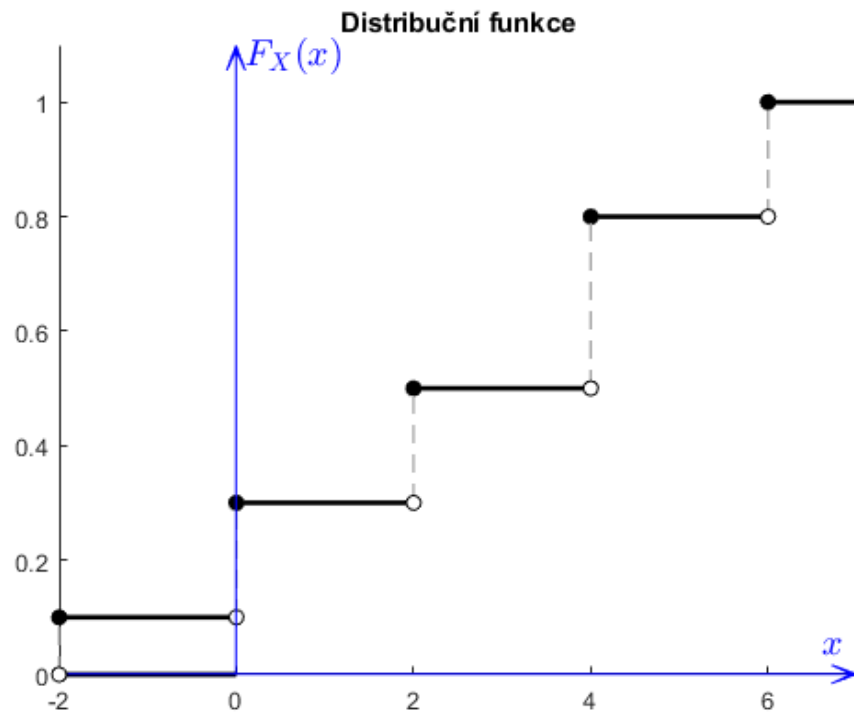
x					
$f(x)$					

$$F(x) = \begin{cases} 0 & x < -2 \\ 0,1 & -2 \leq x < 0 \\ 0,3 & 0 \leq x < 2 \\ 0,5 & 2 \leq x < 4 \\ 0,8 & 4 \leq x < 6 \\ 1 & x \geq 6 \end{cases}$$

x	-2	0	2	4	6
$f(x)$	0,1	0,2	0,2	0,3	0,2

$$F(x) = \begin{cases} 0 & x < -2 \\ 0,1 & -2 \leq x < 0 \\ 0,3 & 0 \leq x < 2 \\ 0,5 & 2 \leq x < 4 \\ 0,8 & 4 \leq x < 6 \\ 1 & x \geq 6 \end{cases}$$

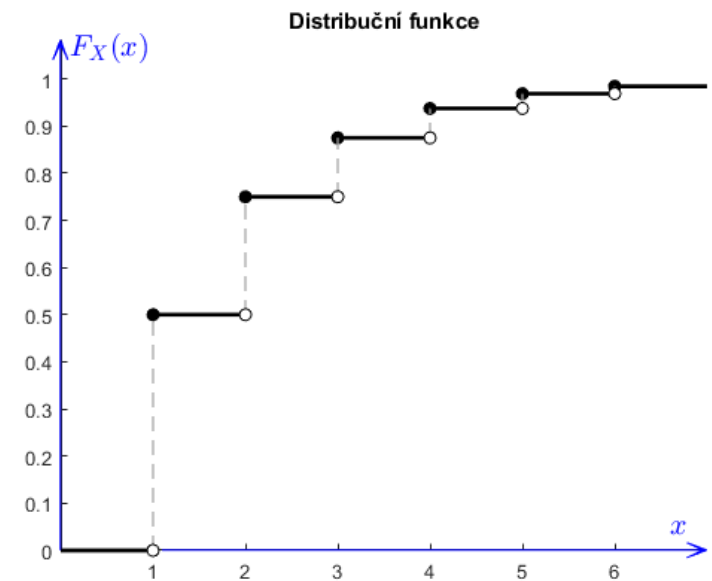
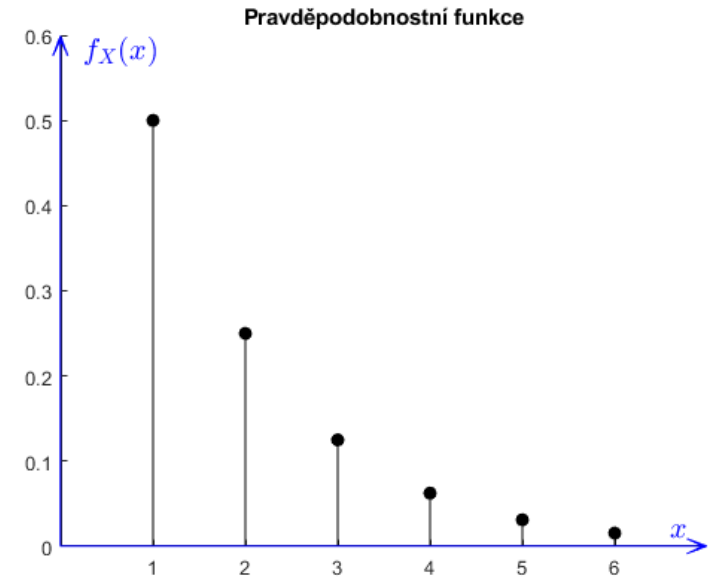
x	-2	0	2	4	6
$f(x)$	0,1	0,2	0,2	0,3	0,2

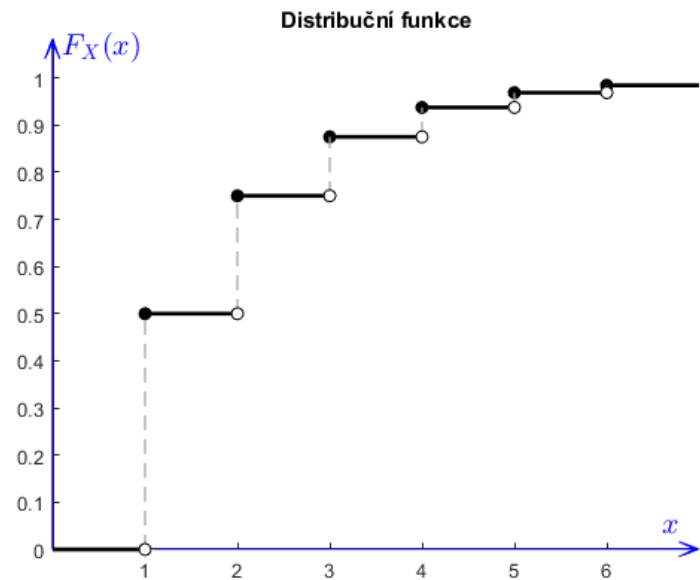


$$f(x) = \frac{1}{2^x} \quad x \in \{1, 2, 3, \dots\}$$

- a) $f(x)$ a $F(x)$
- b) Graficky $f(x)$ a $F(x)$
- c) $F(2 < X \leq 5)$
- d) $F(X > 4)$

x	1	2	3	4	5
$f(x)$					
$F(x)$					





x	1	2	3	4	5
$f(x)$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$
$F(x)$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{31}{32}$

