

**MLE**

Aflati **MLE** ai urmatorilor parametri pentru urmatoarele densitati de probabilitate si sample-uri de dimensiune  $n$ .

1.  $f_X(x; \theta) = \theta \cdot x^{\theta-1}, 0 < x < 1, \theta > 0$ .
2.  $f_X(x; \theta) = (\theta + 1)x^{-\theta-2}, 1 < x, \theta > 0$ .
3.  $f_X(x; \theta) = \theta^2 \cdot x \cdot e^{-\theta \cdot x}, 0 < x, \theta > 0$ .
4.  $f_X(x; \theta) = 2 \cdot \theta^2 \cdot x^{-3}, \theta \leq x, \theta > 0$ .
5.  $f_X(x; \theta) = \frac{\theta}{2} \cdot e^{-\theta \cdot |x|}, -\infty < x < \infty, \theta > 0$ .
6.  $f_X(x; \theta_1, \theta_2) = \frac{1}{\theta_2 - \theta_1}, \theta_1 \leq x \leq \theta_2$ .
7.  $f_X(x; \theta_1, \theta_2) = \theta_1 \cdot \theta_2^{\theta_1} \cdot x^{-\theta_1-1}, \theta_2 \leq x, \theta_1, \theta_2 > 0$ .