

3b. Gyakorlat

Végeredmények

1.

a) $\frac{1}{3}$

b) $\frac{\binom{n}{m} 2^{n-m}}{3^n}$

c) $\frac{\binom{n-2}{m} 2^{n-m-2}}{3^n}$

d) $\frac{\binom{n}{m_0} \binom{n-m_0}{m_1}}{3^n}$

2. $\frac{3}{50}, \frac{3}{50}, \frac{1}{25}, \text{unió: } \frac{23}{200}$

3. 0,4218

4.

5.

6. 0,0707

7. 0,4142

8. 0,6090

9.

10. $\mathbb{P}(X = k) = \binom{5}{\frac{5-k}{2}} (1-p)^{\frac{5-k}{2}} p^{\frac{5+k}{2}}, k \in \{-5, -3, -1, 1, 3, 5\}$

11. $\frac{3}{8}$

12. $\mathbb{P}(X = k) = \left(\frac{n-1}{n}\right)^{k-1} \frac{1}{n}, k = 0, 1, 2, \dots$