Tiro 10 veces a canasta y meto 7.

$X \sim B(10, 0.7)$ La variable x es cuántas veces acierto

$P(x = 10) = 0'7^{10}$

$P(x = 0) = 0'3^{10}$

$P(x = 1) = 10 \cdot 0'7 \cdot 0'3^9$ $\binom{10}{1}$

$P(x = 2) = \binom{10}{2} \cdot 0'7^2 \cdot 0'3^8$

$\boxed{P(x = k) = \binom{n}{k} p^k \cdot q^{n-k}}$

m veces

$\binom{n}{m} = \dfrac{n \cdot (n-1) \cdots}{n!}$

$\binom{n}{m} = \binom{n}{n-m}$

$\binom{n}{0} = 1$, $\binom{n}{1} = n$

$P(x \geq 3) = P(x = 3) + P(x = 4) \cdots + P(x = 10)$

$P(x \geq 3) = 1 - [P(x = 0) + P(x = 1) + P(x = 0)]$

q^{10} $\quad 10pq^9 \quad 45p^2q^8$