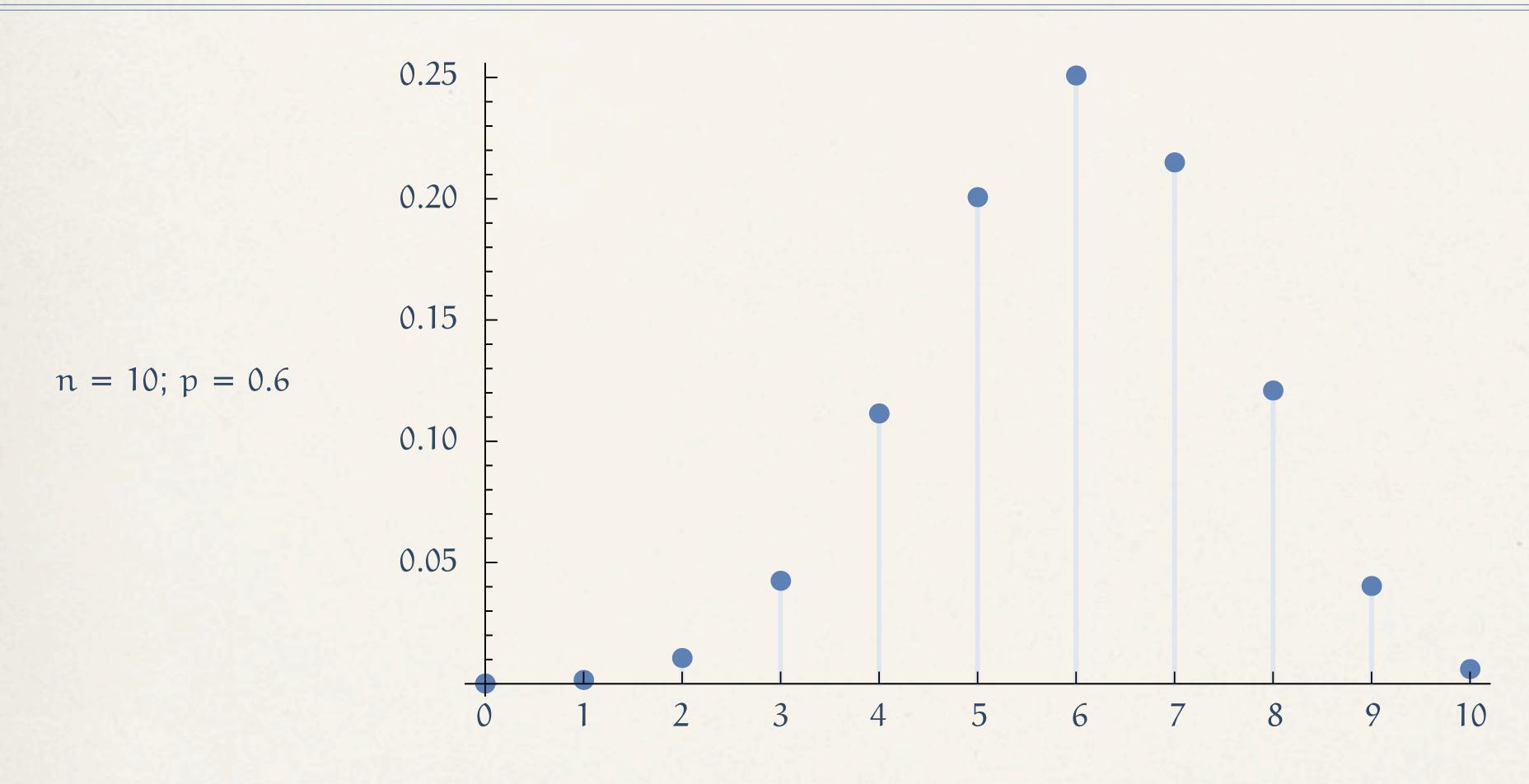
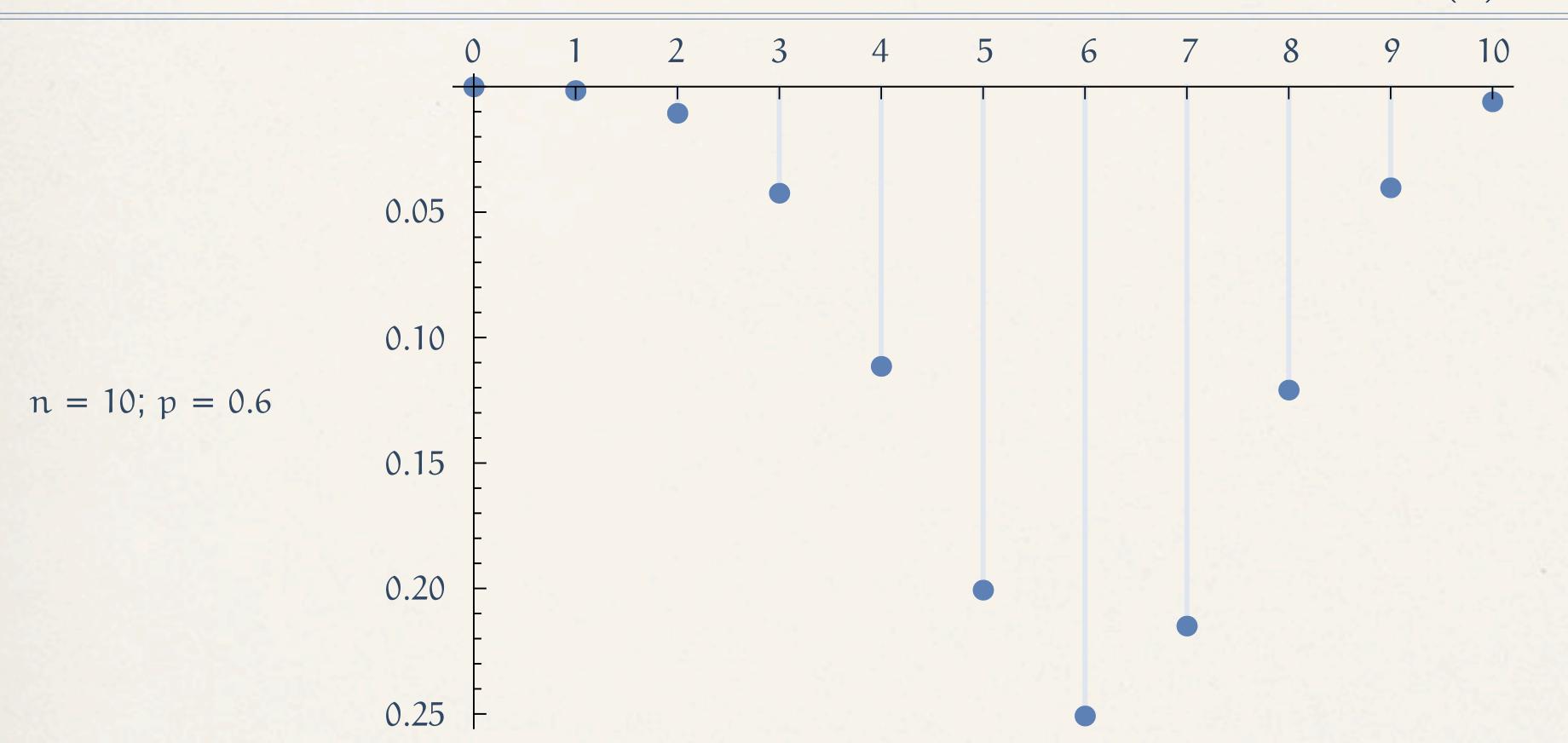
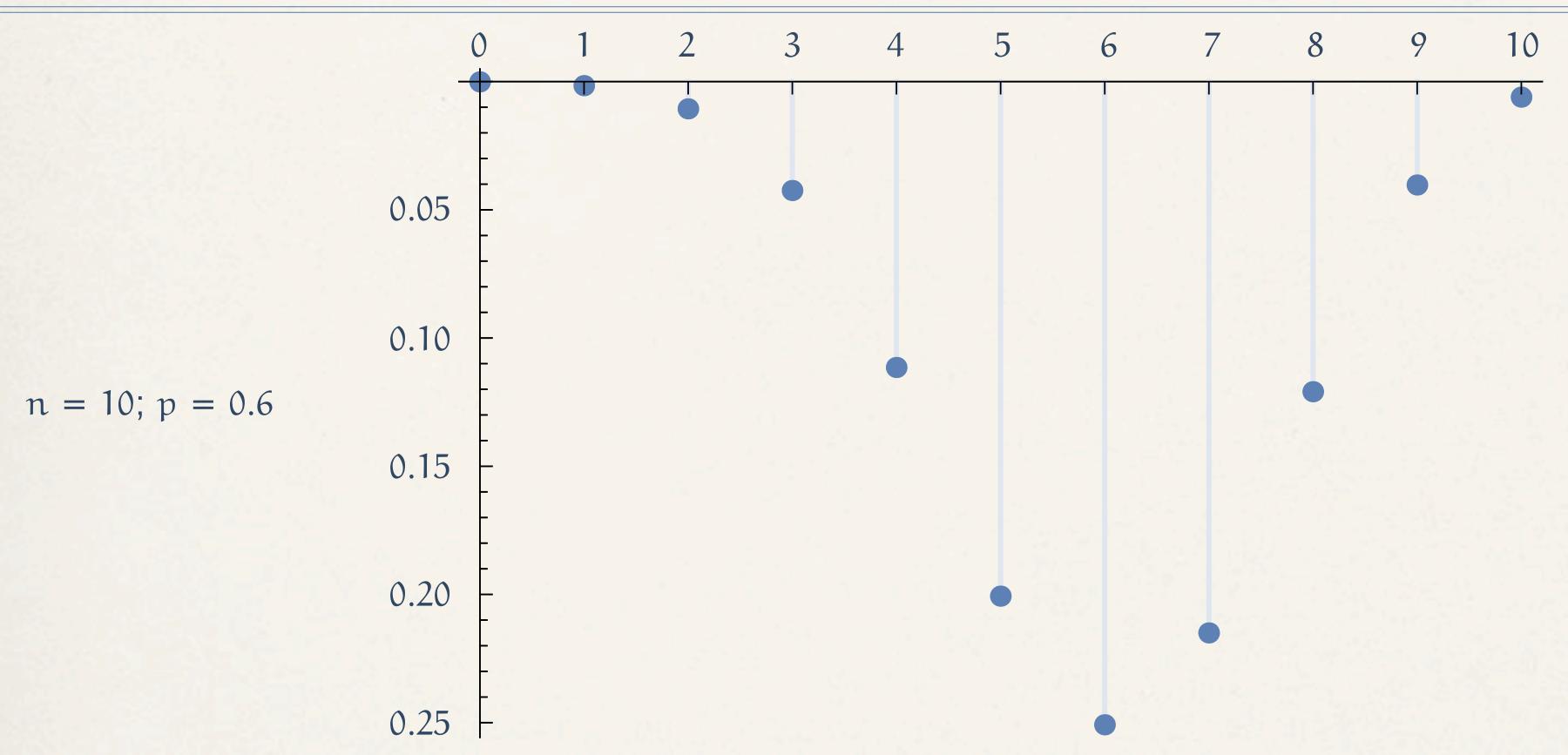
$$b(k) = b_n(k; p) = \binom{n}{k} p^k q^{n-k}$$
 $(k = 0, 1, ..., n)$



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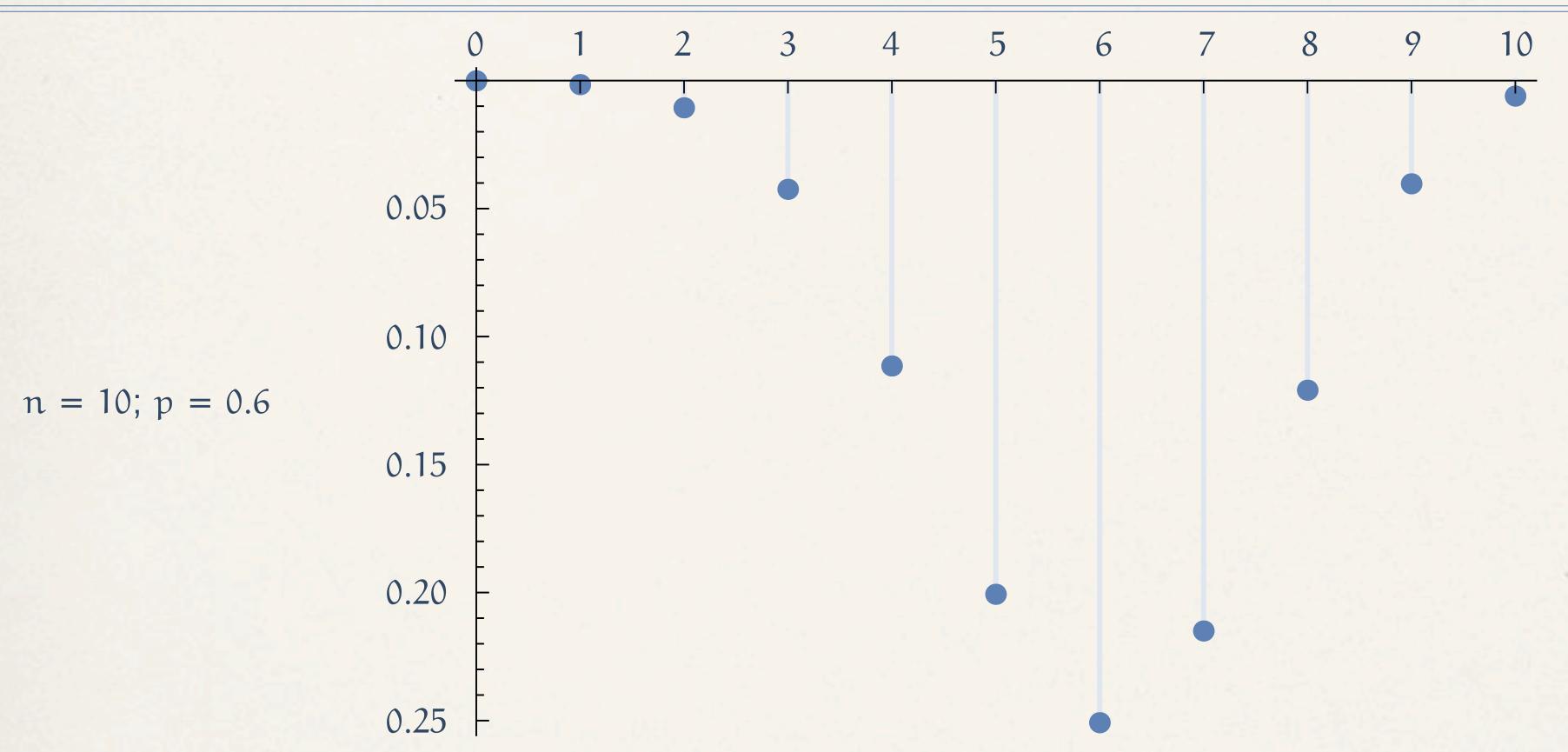


$$b(k) = b_n(k; p) = \binom{n}{k} p^k q^{n-k} \qquad (k = 0, 1, \dots, n)$$



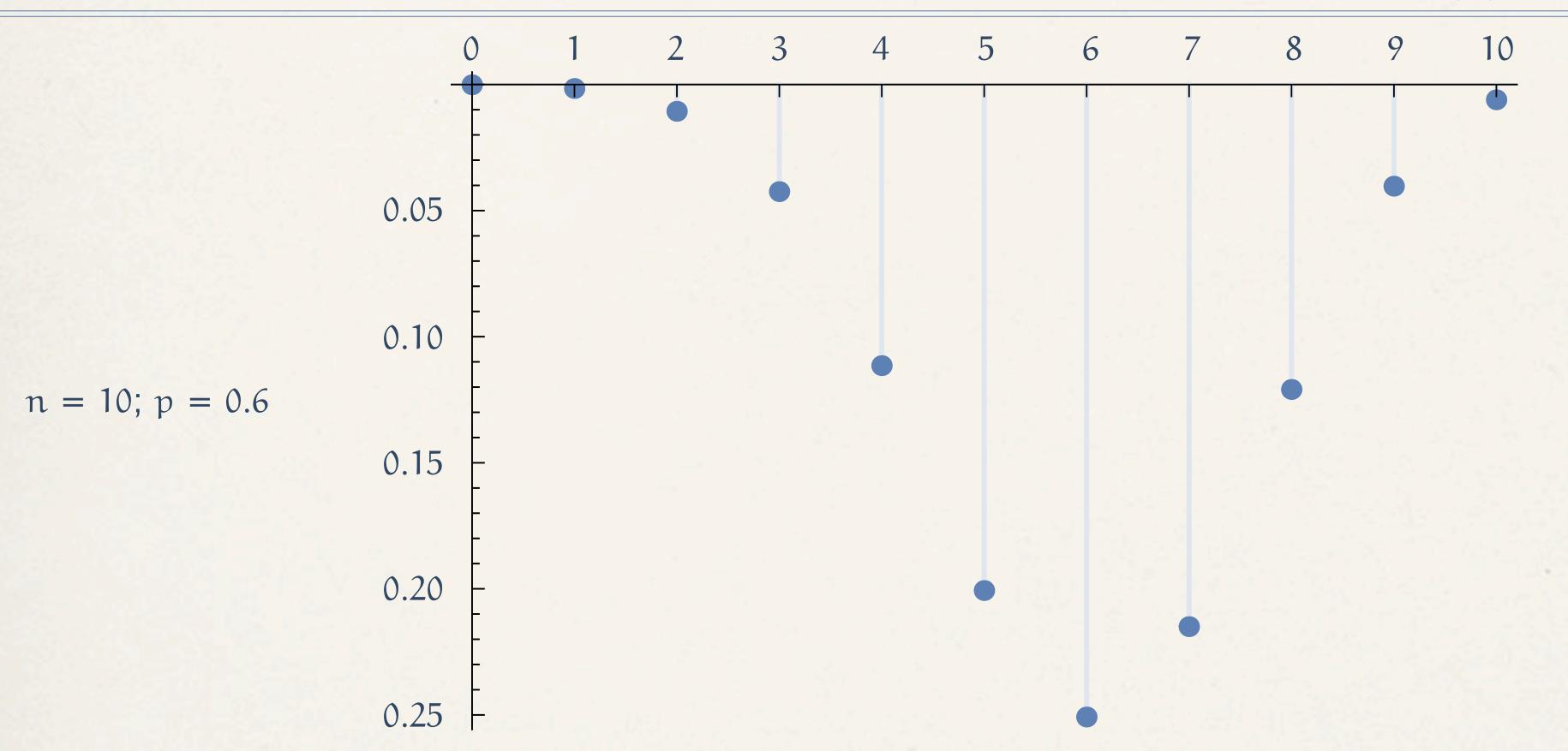
$$\mu = 0 \cdot b(0) + 1 \cdot b(1) + \cdots + k \cdot b(k) + \cdots + n \cdot b(n)$$

$$b(k) = b_n(k; p) = \binom{n}{k} p^k q^{n-k} \qquad (k = 0, 1, \dots, n)$$



$$\mu = 0 \cdot b(0) + 1 \cdot b(1) + \dots + k \cdot b(k) + \dots + n \cdot b(n) = \sum_{k} k \cdot b_{n}(k; p)$$

$$b(k) = b_n(k; p) = \binom{n}{k} p^k q^{n-k}$$
 $(k = 0, 1, ..., n)$



mean, expected value The expectation of S_n

 $\mu = 0 \cdot b(0) + 1 \cdot b(1) + \dots + k \cdot b(k) + \dots + n \cdot b(n) = \sum_{i} k \cdot b_n(k; p) =: \mathbf{E}(S_n)$