Vivian Charny 640: 437:01 Howework 19

(i) (ii) II times
(iv)
$$\left(\frac{5}{6}\right)^{10} \Rightarrow 1 - \left(\frac{5}{6}\right)^{10} = 0.83849$$
(ii) (iii) $1 - \left(\frac{5}{6}\right)^{10} \Rightarrow 1 - \left(\frac{5}{6}\right)^{10} = 0.83849$

(2) $\binom{n}{k} = \frac{n!}{k(n-1c)!}$ In this firmily, as we select more objects, the number of total objects (even by one. We tren can multiply all of them together winy the product will of pubability

(3) $\binom{n}{k} p^{lc} (1-p)^{n-kc}$

we can see that the pobability of finding k heads is shown as "p" and is multiplied by k times. The remaining bunch of flips would be denoted as L-1, which is fir (p-1), which is fir files.