$$Pr\{ \times \text{heads} > \beta n \} = Pr\{ \times \text{tails} < (1-\beta)h \}$$

$$= \frac{1 - (1-\beta)}{1 - (1-\beta)/p} \cdot \frac{2^{n+(\beta)}}{\sqrt{2\pi(1-\beta)}} \cdot p^{(1-\beta)h} (1-\beta)^{\beta h}$$

(a)
$$Pr\{2n \leq (P-0.04) kn\}$$

 $\frac{1-(P-0.04)}{1-(P-0.04)/P} \frac{2^{n}H(P-0.04)}{\sqrt{2\pi(P-0.04)}(1-(P-0.04))h}$
 $\frac{(1-P)^{(1-(P-0.04))/h}}{(1-P)^{(1-(P-0.04))/h}}$

$$\frac{P+0.04}{1-\frac{1-(P+0.04)}{1-P}} \cdot \frac{2}{\sqrt{2} \, \pi(P+0.04)(1-(P+0.04))h}}$$

$$\frac{(P+0.04)h}{(1-(P+0.04))h}$$

 $Pr \left\{ \times Lost < 0.93(2,10,000) \right\}$ $-(\frac{1-.98}{1-.98/.99}) \frac{2^{10,000} H(.98)}{\sqrt{2\pi.98(1-.98)} 10,000}$.02.10,000 $\times .99$

2)

Capian