```
1. (a) P(X > 13 | M=10) = st. norm.sf (13, loc=10, scale= 8/125) = 0.03
       こ 可指番別
 (b) P(x >73 | 11=10) = st.t.sf(13, loc. 10, scale= 9/525, df=24)=0.054
       .. 不可推翻
(a) E(\hat{p}) = E(\frac{x}{n}) = \frac{1}{n} E(x) = \frac{1}{n} np = p
 (b) Var(\hat{p}) = Var(\frac{X}{n}) = \frac{1}{n^2} Var(X) = \frac{1}{n^2} \cdot npq = \frac{pq}{n}
       st.t.interval (0.05, df=99, loc-60, scale= 124/100)
       = (59.028,60.972)
  d) st.t.interval (0.9, df = 99, loc=60, scale= 124/100)
       = (59.187, 60.813)
 (a)
       P(X=66) = st. binom. pmf(k=66, n=100, p=0.6) = 0.039
 (b)
  (d)
       不拒絕接受
 (e)
 (f)
 (9)
 (h)
```

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