A1)
$$\theta_{1} = M$$
 $f(n) = \frac{1}{2\pi\sigma^{2}} e^{-\frac{1}{2} \frac{(n \cdot M)^{2}}{3^{2}}}$
 $= \frac{1}{\sqrt{2\pi\sigma^{2}}} e^{-\frac{1}{2} \frac{(n \cdot M)^{2}}{3^{2}}}$
 $f(n, \theta_{1}, \theta_{2}) = \frac{1}{\sqrt{2\pi\sigma^{2}}} e^{-\frac{1}{2} \frac{(n \cdot M)^{2}}{3^{2}}}$
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$$\frac{d \log (- - \frac{n}{200^2} - \frac{2(n-0)^2}{200^2} = 0)}{- n \theta_2 + \frac{2(n-0)^2 = 0}{200^2}}$$

$$\frac{\partial^2 - \delta^2 - \frac{2(n-x)^2}{n} = 0}{\partial^2 - \frac{2(n-x)^2}{n}}$$

$$\frac{\partial^2 - \frac{2}{n}}{n} = \frac{2(n-x)^2}{n}$$

To compute log likelihood

log $l(\theta)$ $n_i --- n_n = \frac{e}{e} \log \binom{m}{n_i} + \frac{e}{e} \log \binom{m}{n_i}$ $n_i \log \theta + (m-n_i) \log (l-\theta)$

 $\frac{8}{6} \frac{\pi i}{0(1-0)} = \frac{m \cdot n}{(1-0)}$ $0 = \frac{8}{1-6} \frac{\pi i}{n \cdot n}$ $m \cdot n$ $m \cdot n$ $B(m, 0) = \frac{8}{1-6} \frac{\pi i}{n \cdot n}$