m. 
$$X \sim Normal(M, 6, \frac{2}{2})$$
  $(\overline{X} - \overline{Y}) - (M - M_2)$ 

n.  $Y \sim Normal(M, 6, \frac{2}{2})$   $\overline{M_m^2} + 6\frac{2}{3}$   $\sim Normal(0, 1)$ 
 $S_p^2 = (m-1)S_x^2 + (n-1)S_n^2$  if  $6, -6z$ 

then  $E[S_p^2] = E[S_x^2] = E[S_y^2] = 6^2$ 
 $(\overline{X} - \overline{Y}) - (M_1 - M_2)$   $\sim t (m+n-2)$ 
 $\overline{S_p^2} + \frac{5}{n}$ 
 $M_1 - M_2 = (\overline{X} - \overline{Y}) \pm t \frac{2}{3} (\overline{M_m^2} + \frac{6}{n})$ 
 $M_1 - M_2 = (\overline{X} - \overline{Y}) \pm t \frac{2}{3} (m+n-2) (\overline{S_p^2} + \frac{5}{n})$ 
 $S_p^2 = (m-1)S_x^2 + (n-1)S_x^2$   $S_p \rightarrow the poded estimate of standard deviation$ 
 $\overline{P} = \frac{1}{n} \sum_{j=1}^{n} X_j \times (x_j - Bernoulli(p))$ 
 $E[p] = P \quad Var(\overline{P}) = \frac{p_1 - p_2}{n}$ 
 $M \in \overline{X} \pm t \frac{2}{3} (\overline{P} - \overline{P})$ 
 $M \in \overline{X} \pm t \frac{2}{3} (\overline{P} - \overline{P})$ 
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