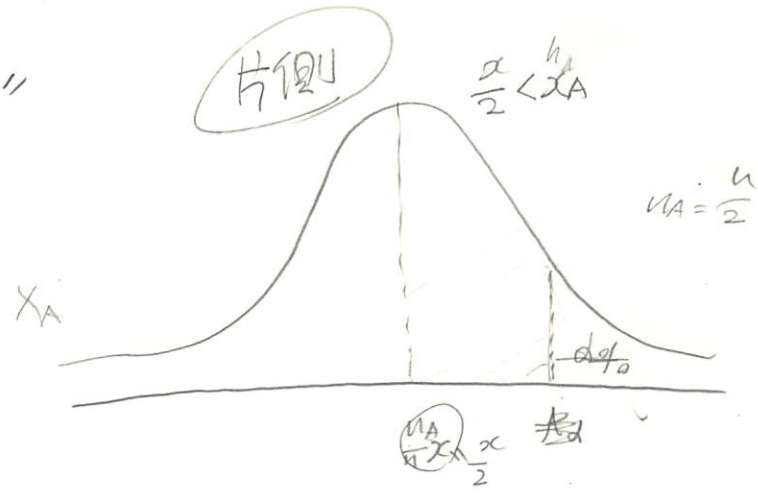
H14 問9.

(1) $P(X_A = x_A) = \binom{x}{x_A} \left(\frac{u_A}{u}\right)^{x_A} \left(\frac{u_B}{u}\right)^{x_B}$ //

(2) ii　　(! $x_A$ フ $x_B$)

(3)
$$Z = \frac{X_A - \frac{u_A}{u}x}{\sqrt{\frac{x}{4}}} \sim N(0,1)$$





$\alpha = 5\%$

$P(Z \leq t_\alpha) = 1 - 0.0\alpha$

$$X_A - \frac{x}{2} \leq \frac{\sqrt{x}}{2} t_\alpha$$

$$X_A \leq \frac{x}{2} + \frac{\sqrt{x}}{2} t_\alpha$$

手生めくいきは、 $X_A > \frac{x}{2} + \frac{\sqrt{x}}{2} t_\alpha$

?