- [y p, 1 - y p, 0]

$$\frac{\xi y_{i}}{h_{i}} = \frac{\xi y_{i}}{h_{i}} - \frac{\xi y_{i}}{h_{i}} - \frac{\xi y_{i}}{h_{i}} + \frac{\xi$$

$$Van(\hat{\beta}) = 6^{2}(x^{1}x)^{-1}$$

$$Van(\hat{\beta}) = \frac{6^{2}}{E(P_{i}-\bar{D})^{2}} = \frac{6^{2}}{E(P_{i}-\bar{$$

$$Var(\hat{\beta}_{z}) = \frac{1}{1000 \cdot 0.1 \cdot 0.5} = \frac{1}{90}$$
 $Var(\hat{\beta}_{z}) = \frac{1}{9 \cdot 9.5 \cdot 0.5} = \frac{1}{9 \cdot 9.5 \cdot 0.5}$
 $Var(\hat{\beta}_{z}) = \frac{1}{200 \cdot 0.5 \cdot 0.5} = \frac{1}{9 \cdot 0.5 \cdot 0.5}$

b)
$$\frac{1}{12}$$
 $\frac{1}{12}$
 $\frac{1}{1$

$$\Delta X = \Delta \qquad \hat{\beta}_1 = \overline{Y}_{1,0} - \overline{Y}_{0,0}$$

$$\Delta \overline{Z} = \overline{Y}_{0,1} - \overline{Y}_{0,0}$$