$$\begin{bmatrix} \mathbf{x}_{i}^{(0)} \\ \mathbf{x}_{i}^{(0)} \end{bmatrix} = \mathbf{x}_{i}^{(0)} \in \mathbf{D}_{n_{i}}^{\mathbf{x}_{i}} \mathbb{R}^{n_{i}}$$

$$\phi(\mathbf{x}_{i}^{(0)}) = \begin{bmatrix} \mathbf{x}_{i} \\ \mathbf{x}_{i} \end{bmatrix} = \mathbf{x}_{i}^{(0)} \in \mathbf{D}_{n_{i}}^{\mathbf{x}_{i}} \mathbb{R}^{n_{i}}$$

$$\phi(\mathbf{x}_{i}^{(0)}) = \begin{bmatrix} \mathbf{x}_{i} \\ \mathbf{x}_{i} \end{bmatrix} = \mathbf{x}_{i}^{(0)} \mathbf{x}_{i}^{(0)} \end{bmatrix}$$

$$\mathbf{x} = \mathbf{x}_{i}^{(0)} \Rightarrow \phi(\mathbf{x}_{i}^{(0)}) = \phi(\mathbf{x}_{i}^{(0)}) = \mathbf{x}_{i}^{(0)} \end{bmatrix}$$

$$\mathbf{x} = \mathbf{x}_{i}^{(0)} \Rightarrow \phi(\mathbf{x}_{i}^{(0)}) = \phi(\mathbf{x}_{i}^{(0)}) = \mathbf{x}_{i}^{(0)} \end{bmatrix}$$

$$\mathbf{x} = \mathbf{x}_{i}^{(0)} \Rightarrow \phi(\mathbf{x}_{i}^{(0)}) = \phi(\mathbf{x}_{i}^{(0)}) = \mathbf{x}_{i}^{(0)} \end{bmatrix}$$

$$\mathbf{x} = \mathbf{x}_{i}^{(0)} \Rightarrow \phi(\mathbf{x}_{i}^{(0)}) = \phi(\mathbf{x}_{i}^{(0)}) = \mathbf{x}_{i}^{(0)} \end{bmatrix}$$

$$\mathbf{x} = \mathbf{x}_{i}^{(0)} \Rightarrow \phi(\mathbf{x}_{i}^{(0)}) = \mathbf{x}_{i}^{(0)} = \mathbf{x}_{i}^{(0)} \end{bmatrix}$$

$$\mathbf{x} = \mathbf{x}_{i}^{(0)} \Rightarrow \phi(\mathbf{x}_{i}^{(0)}) = \mathbf{x}_{i}^{(0)} = \mathbf{x$$

Remainder tune

Subpose 
$$T = iT$$

Subpose  $T = iT$ 

Let  $S_{i}(T) = S_{i}(T)$ 

Let  $S_{i}(T) = S_{i}(T)$ 

Subpose  $T = iT$ 

Let  $S_{i}(T) = S_{i}(T)$ 

Let  $S_{i}(T) = S_{i$ 

$$\Delta y = \tilde{y} - y = D(\phi^{(x)}) \cdot \Delta x$$

$$D(\phi^{(x)}) = D[f(\phi^{(x)})]D[g^{(x)}]$$

$$D(\phi^{(x)}) = D[\phi^{(x)}(x^{(x)})] \dots D[\phi^{(x)}(x^{(x)})]$$

$$D[\psi^{(x)}] = D[\phi^{(x)}(x^{(x)})] \dots D[\phi^{(x)}(x^{(x)})]$$

$$\Delta x^{(x)} = \tilde{x}^{(x)} - x^{(x)}$$

$$\begin{array}{lll} - \times & - \times \\ & D_{1} \leftarrow & D_{1} + \\ & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} + \\ & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} + \\ & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} + \\ & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} + \\ & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} + \\ & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} \leftarrow & D_{2} + \\ & D_{2} \leftarrow & D_{2}$$

... (<del>2</del>)

```
Sample:
                      η = φ(x) = 02-62

η = π + π

\Phi^{(0)}\begin{bmatrix} a \\ b \end{bmatrix} = \begin{bmatrix} a^2 \\ b \end{bmatrix}

               φ<sup>(6)</sup>: R<sup>2</sup> → (R+ 1 893) ⊗ R
               \Phi^{(1)} \begin{bmatrix} u \\ v \end{bmatrix} = \begin{bmatrix} u \\ v^2 \end{bmatrix}
                      Φ(): ((R+ 1) {Q}) ⊗ (R → (R+ 1) {Q}))*
            9<sup>(2)</sup> [x] = x-β
9<sup>(2)</sup>. (IR+ 1) {0} (1<sup>2</sup> → IR
                        \varphi = \varphi^{(e)} \circ \varphi^{(r)} \circ \varphi^{(r)}
D[p(x)]: (m×n) - mateix
                                     D(0) = [30, 30]
                                        \varphi(a,b) = a^{2} - b^{2}
\Rightarrow \mathcal{D}[\varphi(a,b)] = (2a, -2b)
                           D[\varphi(a,b)] \begin{pmatrix} \Delta a \\ \Delta b \end{pmatrix} = (2a, -2b) \begin{pmatrix} \Delta a \\ \Delta b \end{pmatrix}
                                                                                                               = 2a Aa - 2b Ab
                                                            E++1 -1
                                               \lim_{n\to\infty} E_{3} = m_{3} = m (= 1); |G_{3}| \leq E_{M}
\lim_{n\to\infty} E_{3} = G_{2}(a^{2} - b^{2})
                                               Δy = 2a. Δa - 2b. Δb + 63 (a-b)
                                                                                                + D4(1)(x(1)) E1x(1)
                                                                                4_{(1)} = 3 - 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 3_{(1)} = 
                                                                                           #[p(e)(x(e))] - $ p(0)(x(e))
                                                                                                                                       = \left[ \begin{array}{c} P^{1}(a \times a) & - \left[ \begin{array}{c} a^{2} \\ b \end{array} \right] \\ = \left[ \begin{array}{c} C_{1} & a^{2} \\ \end{array} \right]
                                                                                                             = [8, 0] = [8, 0][6]
                                                                                                                           D4<sup>(1)</sup>(x<sup>(1)</sup>).E₁x<sup>(1)</sup>
                                                                                                                                                  = \begin{bmatrix} 1_3 - 2b \end{bmatrix} \begin{bmatrix} 8_1 & 0 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} 6_1 & 0^2 \\ b \end{bmatrix}
= \begin{bmatrix} 1_3 - 2b \end{bmatrix} \begin{bmatrix} 8_1 & 0 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} 6_1 & 0^2 \\ 0 & 0 \end{bmatrix}
= \begin{bmatrix} 8_1 & 0^2 \\ 0 & 0 \end{bmatrix}
                                                                                      \Delta y = 2a \Delta a - 2b \Delta b + \epsilon_3 (a^2 - b^2) + \epsilon_4 a^2 + D \psi^{(2)} (e^{(2)}) \cdot \epsilon_2 x^{(2)}
                                                                                                           E^{2} \mathcal{M}_{(g)} = \bigoplus_{(g)} [\Delta_{(g)}(\mathcal{X}_{(g)})] - \Delta_{(g)}(\mathcal{X}_{(g)}) = (i^{2} - i)
\Rightarrow A_{(g)}(\mathcal{X}_{(g)}) = (i^{2} - i)
\Rightarrow A_{(g)}(\mathcal{X}_{(g)}) = A_{(g)}(\mathcal{X}_{(g)}) = (i^{2} - i)
                                                                                                                                                                          [8.62]
                                                                                                     Dy(2)(2) E2 2(2)
                                                                                                                                      = (1, -1) \begin{pmatrix} 0 & 0 \\ 0 & \epsilon_0 \end{pmatrix} \begin{pmatrix} \frac{\alpha_0}{2} \\ \frac{\alpha_0}{2} \end{pmatrix}
                                                                                       .. \Delta y_{mal} = 2a \Delta a - 2b \Delta b + \epsilon_1 a^2 - \epsilon_2 b^2 + \epsilon_3 (a^2 - b^2) + \epsilon_3 (a^2 - b^2)
|\epsilon_2| \leq \epsilon_M, \quad \epsilon_{-1}, \epsilon_2 \epsilon_3.
```

 $++++ [a] \rightarrow [a+b] \rightarrow (a+b)(a-b)$