

$$\leq \text{[diagram 1]} \text{[diagram 2]} : \quad \text{[diagram 3]} = \text{[diagram 4]}$$

$$\leq \frac{1}{\epsilon} \left(\sum_{i=1}^n \left| \frac{\partial f_i}{\partial x_j} \right|^2 + \sum_{i=1}^n \left| \frac{\partial f_i}{\partial y_j} \right|^2 \right) = \frac{1}{\epsilon} \left(\sum_{i=1}^n \left| \frac{\partial f_i}{\partial x_j} \right|^2 + \sum_{i=1}^n \left| \frac{\partial f_i}{\partial y_j} \right|^2 \right)$$

[illegible]

$$\leq \frac{1}{\sqrt{\pi}} \left(\frac{1}{\sqrt{\pi}} + \frac{1}{\sqrt{\pi}} \right) = \frac{2}{\sqrt{\pi}}$$