

[illegible]

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

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

[illegible]

$$\leq \frac{1}{2} \left(\sum_{i=1}^n |x_i|^2 + \sum_{i=1}^n |y_i|^2 \right) = \frac{1}{2} \|x\|_2^2 + \frac{1}{2} \|y\|_2^2$$

[illegible]

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