

$$1. \quad \lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{n\sqrt{n}} \sqrt{\frac{2k-1}{2}} =$$

$$2. \quad x, y \in \mathbb{R}, \text{ 求 } \sqrt{(2x+2y+2)^2 + (x+3y+1)^2 + (2x+4y-1)^2} \text{ 最小值?}$$

$$3. \quad \vec{op} = (3\sin\alpha + \cos\beta, \sin\alpha + 3\cos\beta), 0 \leq \alpha \leq \frac{\pi}{6}, 0 \leq \beta \leq \frac{\pi}{3} \text{ 求所圍成的面積? (印象中是這樣)}$$