## 106【三角関数】

 $\theta$  の関数  $y = \sin 2\theta + \sin \theta + \cos \theta$  について、最大値、最小値を求めよ.

$$\begin{aligned}
& \sin 2\theta = 2 \sin \theta \cos \theta = 27 \\
& f = 2 \sin \theta \cos \theta + \sin \theta + \cos \theta \\
& f = \sin \theta + \cos \theta + \sin \theta + \cos \theta \\
& f = \sin \theta + \cos \theta + \sin \theta + \cos \theta \\
& f = \int_{-\frac{\pi}{2}}^{2} \left( \frac{1}{12} \sin \theta + \frac{1}{12} \cos \theta \right) \\
& = \int_{-\frac{\pi}{2}}^{2} \sin \left( \theta + \frac{\pi}{4} \right) \\
& f = \int_{-\frac{\pi}{2}}^{2} \sin \left( \theta + \frac{\pi}{4} \right) \\
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& f = \int_{-\frac{\pi}{2}}^{2}$$

 $\pm 7$ =  $\pm 20 + 20 + 20 = 0$   $\pm 2 = 6 + 20 + 20 = 0$  $\pm 2 = 100 = 0 = 0$ 

