

계산 결과

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$$\text{공식} : m_1 g (\cos\theta + \sin\theta) + m_2 g \left(\cos\frac{\pi}{3} - \sin\frac{\pi}{3} \right)$$

$$\text{결과} : \theta_{180g} = 56.6$$

$$\theta_{160g} = 53.1$$

$$\text{오차율} : \left| \frac{56.6 - 58}{56.6} \right| \times 100 = \frac{7}{283} \times 100 \cong 0.025\%$$