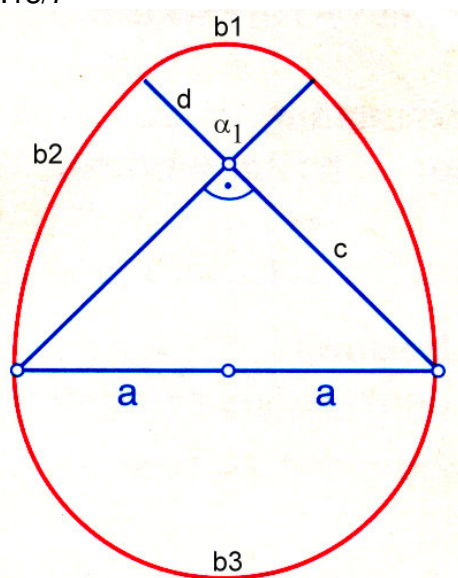


S.18/7



$$c^2 + c^2 = (2a)^2$$

$$2c^2 = 4a^2$$

$$c^2 = 2a^2$$

$$c = \sqrt{2}a$$

$$d + c = 2a \Rightarrow d = 2a - c = 2a - \sqrt{2}a = (2 - \sqrt{2})a$$

$$b_1 = \frac{90^\circ}{360^\circ} 2d\pi = \frac{1}{2} d\pi = \frac{1}{2} (2 - \sqrt{2})a\pi$$

$$b_2 = \frac{45^\circ}{360^\circ} 2 \cdot 2a\pi = \frac{1}{4} 2a\pi = \frac{1}{2} a\pi$$

$$b_3 = \frac{180^\circ}{360^\circ} 2a\pi = a\pi$$

$$U = b_1 + 2b_2 + b_3 = \frac{1}{2} (2 - \sqrt{2})a\pi + 2 \cdot \frac{1}{2} a\pi + a\pi = \frac{1}{2} (2 - \sqrt{2})a\pi + 2a\pi = \left(3 - \frac{\sqrt{2}}{2} \right) a\pi$$