>
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205
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(1)
> $\text{Pi} \cdot int\big((2 + \text{sqrt}(1 - x^2))^2, x = -1..1 \big) - \text{Pi} \cdot int\big((2 - \text{sqrt}(1 - x^2))^2, x = -1..1 \big)$

$$\pi \left(\frac{28}{3} + 2\,\pi \right) - \pi \left(\frac{28}{3} - 2\,\pi \right) \tag{1}$$

> $simplify(\%)$

$$4\,\pi^2 \tag{2}$$

(2)
> $2 \cdot \text{Pi} \cdot int\big(\text{sqrt}(1 + diff(2 + \text{sqrt}(1 - x^2), x)^2) \cdot \text{abs}(2 + \text{sqrt}(1 - x^2)), x = -1..1 \big) + 2 \cdot \text{Pi}$
  $\cdot int\big(\text{sqrt}(1 + diff(2 - \text{sqrt}(1 - x^2), x)^2) \cdot \text{abs}(2 - \text{sqrt}(1 - x^2)), x = -1..1 \big)$

$$2\,\pi\,(2 + 2\,\pi) + 2\,\pi\,(-2 + 2\,\pi) \tag{3}$$

> $simplify(\%)$

$$8\,\pi^2 \tag{4}$$

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