

Lösung zu S.22/29:

$$A_{\text{Dreieck}} = \frac{1}{2}ab;$$

$$A_{b1} = \frac{1}{2} \cdot \left(\frac{c}{2}\right)^2 \pi = \frac{c^2}{8} \pi;$$

$$A_{b2} = \frac{1}{2} \cdot \left(\frac{a}{2}\right)^2 \pi = \frac{a^2}{8} \pi;$$

$$A_{b3} = \frac{1}{2} \cdot \left(\frac{b}{2}\right)^2 \pi = \frac{b^2}{8} \pi;$$

$$\begin{aligned} A &= A_{b2} + A_{b3} - A_{b1} + A_{\text{Dreieck}} = \frac{a^2}{8} \pi + \frac{b^2}{8} \pi - \frac{c^2}{8} \pi + \frac{1}{2} ab = \frac{\pi}{8} (a^2 + b^2 - c^2) + \frac{1}{2} ab \\ &= \frac{1}{2} ab; \end{aligned}$$