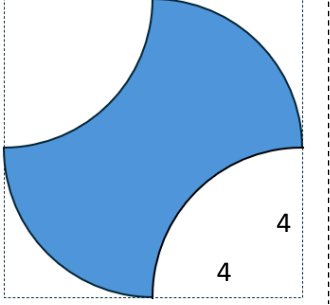
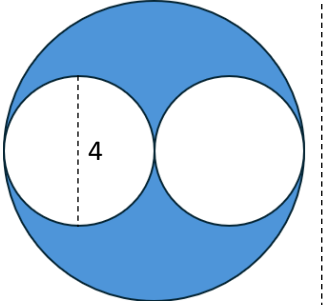
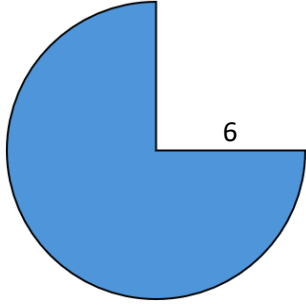
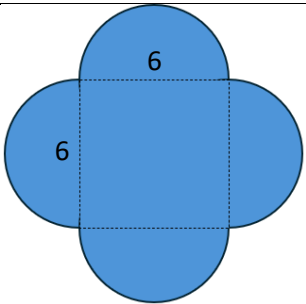
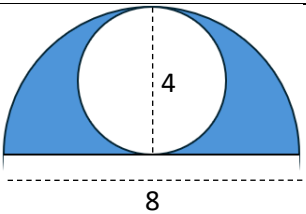
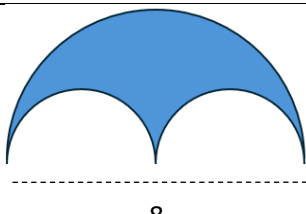


Kreisfläche – zusammengesetzte Figuren

Lösungsblatt

Berechne jeweils den **Flächeninhalt** der folgenden Figuren.

 $A_1 = r_1^2 \cdot \pi = 4^2 \cdot \pi = 16 \cdot \pi$ $A_2 = r_2^2 \cdot \pi = 4^2 \cdot \pi = 16 \cdot \pi$ $A = A_1 - 2 \cdot \frac{A_2}{4} =$ $= 16 \cdot \pi - 2 \cdot \frac{16 \cdot \pi}{4} =$ $= 16 \cdot \pi - 8 \cdot \pi = 8 \cdot \pi$ $= 25,1 \text{ cm}^2$	 $A_1 = r_1^2 \cdot \pi = 4^2 \cdot \pi = 16 \cdot \pi$ $A_2 = r_2^2 \cdot \pi = 2^2 \cdot \pi = 4 \cdot \pi$ $A = A_1 - 2 \cdot A_2 =$ $= 16 \cdot \pi - 2 \cdot 4 \cdot \pi =$ $= 8 \cdot \pi = 25,1 \text{ cm}^2$	 $A_1 = r_1^2 \cdot \pi = 6^2 \cdot \pi = 36 \cdot \pi$ $A = \frac{3}{4} \cdot A_1 = \frac{3}{4} \cdot 36 \cdot \pi =$ $= 27 \cdot \pi = 84,8 \text{ cm}^2$
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 $A_1 = a^2 = 6^2 = 36$ $A_2 = r^2 \cdot \pi = 3^2 \cdot \pi = 9 \cdot \pi$ $A = A_1 + 4 \cdot \frac{A_2}{2} =$ $= 36 + 4 \cdot \frac{9 \cdot \pi}{2} = 36 + 18 \cdot \pi =$ $= 36 + 56,5 = 92,5 \text{ cm}^2$	 $A_1 = r_1^2 \cdot \pi = 4^2 \cdot \pi = 16 \cdot \pi$ $A_2 = r_2^2 \cdot \pi = 2^2 \cdot \pi = 4 \cdot \pi$ $A = \frac{A_1}{2} - A_2 = \frac{16 \cdot \pi}{2} - 4 \cdot \pi =$ $= 8 \cdot \pi - 4 \cdot \pi = 4 \cdot \pi =$ $= 12,6 \text{ cm}^2$	 $A_1 = r_1^2 \cdot \pi = 4^2 \cdot \pi = 16 \cdot \pi$ $A_2 = r_2^2 \cdot \pi = 2^2 \cdot \pi = 4 \cdot \pi$ $A = \frac{A_1}{2} - 2 \cdot \frac{A_2}{2} =$ $= \frac{16 \cdot \pi}{2} - 2 \cdot \frac{4 \cdot \pi}{2} =$ $= 8 \cdot \pi - 4 \cdot \pi = 12,6 \text{ cm}^2$
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