Bogenmaß und Einheitskreis

Stufe 1: Grad- und Bogenmaß umrechnen

Name: _____ Datum: _____

Rechne um: Bogenmaß = Grad · pi : 180°, Grad = Bogenmaß · 180° : pi. Gib das Bogenmaß als Vielfaches von pi an.

1) 216° in rad = _____

2) 100° in rad = _____

3) 705° in rad = _____

4) $\frac{10\pi}{3}$ in Grad = _____

5) $-\frac{\pi}{2}$ in Grad = _____

6) $\frac{29\pi}{9}$ in Grad = _____

7) 252° in rad = _____

8) -30° in rad = _____

9) -45° in rad = _____

10) 555° in rad = _____

11) $-\pi$ in Grad = _____

12) 75° in rad = _____

13) $-\frac{7\pi}{4}$ in Grad = _____

14) 450° in rad = _____

15) 360° in rad = _____

16) $-\frac{43\pi}{36}$ in Grad = _____

17) 0,2 rad in Grad = _____

18) 180° in rad = _____

19) 270° in rad = _____

20) $-\frac{8\pi}{5}$ in Grad = _____

21) 465° in rad = _____

22) $-\frac{5\pi}{6}$ in Grad = _____

23) 285° in rad = _____

24) 4,4 rad in Grad = _____

25) 324° in rad = _____

26) 510° in rad = _____

Lösungen: Bogenmaß und Einheitskreis

Stufe 1: Grad- und Bogenmaß umrechnen

1) 216° in rad = $\frac{6\pi}{5}$

2) 100° in rad = $\frac{5\pi}{9}$

3) 705° in rad = $\frac{47\pi}{12}$

4) $\frac{10\pi}{3}$ in Grad = 600°

5) $-\frac{\pi}{2}$ in Grad = -90°

6) $\frac{29\pi}{9}$ in Grad = 580°

7) 252° in rad = $\frac{7\pi}{5}$

8) -30° in rad = $-\frac{\pi}{6}$

9) -45° in rad = $-\frac{\pi}{4}$

10) 555° in rad = $\frac{37\pi}{12}$

11) $-\pi$ in Grad = -180°

12) 75° in rad = $\frac{5\pi}{12}$

13) $-\frac{7\pi}{4}$ in Grad = -315°

14) 450° in rad = $\frac{5\pi}{2}$

15) 360° in rad = 2π

16) $-\frac{43\pi}{36}$ in Grad = -215°

17) 0,2 rad in Grad = $\approx 11{,}46^\circ$

18) 180° in rad = π

19) 270° in rad = $\frac{3\pi}{2}$

20) $-\frac{8\pi}{5}$ in Grad = -288°

21) 465° in rad = $\frac{31\pi}{12}$

22) $-\frac{5\pi}{6}$ in Grad = -150°

23) 285° in rad = $\frac{19\pi}{12}$

24) 4,4 rad in Grad = $\approx 252{,}1^\circ$

25) 324° in rad = $\frac{9\pi}{5}$

26) 510° in rad = $\frac{17\pi}{6}$