Výsledky

2a $\sin x = 0{,}6;\ \ tg\ x = \frac{3}{4};\ \ \cot g\ x = \frac{4}{3}$

2b $\cos x = -\frac{12}{13};\ \ tg\ x = \frac{5}{12};\ \ \cot g\ x = \frac{12}{5}$

2c $\sin x = \frac{15}{17};\ \ \cos x = \frac{8}{17};\ \ \cot g\ x = \frac{8}{15}$

3 $\sin x.\cos x = -0{,}375$

4a $\sin 2x = \pm\frac{24}{25};\ \ \cos 2x = \frac{7}{25};$

4b $\sin 2x = \pm\frac{4\sqrt{6}}{25};\ \ \cos 2x = \frac{23}{25};$

5a $\frac{1}{2}tgx;\ \ \text{podm.}\ \ x \neq \frac{k\pi}{2}$

5b $\cot g\ x;\ \ \text{podm.}\ \ x \neq \frac{k\pi}{2}$

5c $\frac{2\cos^2 x}{1+\sin 2x};\ \ \text{podm.}\ \ x \neq -\frac{\pi}{4} + k\pi$

5d $1;\ \ \text{podm.}\ \ x \neq \frac{\pi}{2} + k\pi$

6a $\frac{\pi}{24} + \frac{k\pi}{2};\ \ \frac{5\pi}{24} + \frac{k\pi}{2}$

6b $\frac{\pi}{3} + \frac{2k\pi}{5};\ \ \frac{2k\pi}{5}$

6c $\frac{\pi}{3} + k\pi;\ \ \frac{2\pi}{3} + k\pi$

6e $\frac{7\pi}{24} + k\pi;\ \ \frac{23\pi}{24} + k\pi$

6d $x \in \{\ \}$

6f opravené zadanie $\text{tg}\left(\frac{4x-\pi}{2}\right) = \frac{\sqrt{3}}{3}$ vysl. $x = \frac{\pi}{3} + \frac{k\pi}{2};$

7a $k\pi;\ \ \frac{7\pi}{6} + 2k\pi;\ \ \frac{11\pi}{6} + 2k\pi$

7b $2k\pi;\ \ \frac{\pi}{2} + k\pi;$

7c $\frac{\pi}{2} + k\pi;\ \ \frac{\pi}{6} + 2k\pi;\ \ \frac{11\pi}{6} + 2k\pi$

7d $k\pi;\ \ \frac{\pi}{3} + 2k\pi;\ \ \frac{5\pi}{3} + 2k\pi$

7e $\frac{\pi}{2} + k\pi;\ \ \frac{5\pi}{3} + 2k\pi;\ \ \frac{4\pi}{3} + 2k\pi$

7f $k\pi;\ \ \frac{2\pi}{3} + 2k\pi;\ \ \frac{4\pi}{3} + 2k\pi$

7g $\frac{\pi}{12} + k\pi;\ \ \frac{5\pi}{12} + k\pi$

7h $\frac{\pi}{8} + \frac{k\pi}{4}$

7i $k\pi;\ \ \text{arctg}\left(\frac{1}{2}\right) + k\pi$

8a $\frac{2\pi}{3} + 2k\pi;\ \ \frac{4\pi}{3} + 2k\pi$

8b $\frac{3\pi}{2} + 2k\pi$

8c $\frac{\pi}{4} + 2k\pi;\ \ \frac{7\pi}{4} + 2k\pi$

9a $\bigcup_{k\in Z}\left(\frac{\pi}{3} + 2k\pi; \frac{2\pi}{3} + 2k\pi\right)$

9b $\bigcup_{k\in Z}\left(-\frac{\pi}{2} + k\pi; -\frac{\pi}{3} + k\pi\right)$

9c $\bigcup_{k\in Z}\left(-\frac{\pi}{2} + 2k\pi; \frac{\pi}{2} + 2k\pi\right)$