**GONIOMETRICKÉ ROVNICE**

Riešte v R:

1. $1+\sin(x=3\left(1-\sin(x)\right))$ $\left[\frac{π}{6}+2kπ; \frac{5π}{6}+2kπ\right]$
2. $\sqrt{3}\sin(x)+\cos(x)=2$ $\left[\frac{π}{3}+2kπ\right]$
3. $\sqrt{1+\frac{1}{2}\sin(x)}=\cos(x)$ $\left[ \frac{11π}{6}+2kπ\right]$
4. $tan^{-1}z-2sin^{-1}z=-\tan(z)$ $ \left[\frac{π}{3}+2kπ; \frac{5π}{3}+2kπ\right]$

1. $\frac{\sin(x)}{1-\cos(x)}=0$ $\left[\left(2k+1\right)π\right]$

1. $\sin(2x=\tan(x))$ $\left[\frac{π}{4}+k \frac{π}{2}\right]$
2. $\cos(\frac{y}{2}=\sin(y))$ $\left[\frac{π}{3}+2kπ; \left(2k+1\right)π\right]$
3. $sin^{2}x+3cos^{2}x+\cos(x=1)$ $\left[\frac{π}{2}+kπ; \frac{2π}{3}+2kπ; \frac{4π}{3}+2kπ\right]$
4. $\sin(2x)+\cos(2x-\tan(x=1))$ $\left[kπ; \frac{π}{8}+kπ; \frac{5π}{8}+kπ\right]$
5. $\frac{1+\cos(2x)}{\cos(x)}=\frac{\sin(2x)}{1-\cos(2x)}$ $\left[\frac{π}{6}+2kπ; \frac{5π}{6}+2kπ\right]$
6. $\sin(2x=\left(\cos(x-\sin(x))\right)^{2})$ $\left[\frac{5π}{60}+kπ; \frac{5π}{12}+kπ\right]$