

Говорим. I - енцим' 4 - релеш:

(A) 1) $\rightarrow \sin x = -\frac{1}{2} \rightarrow \boxed{x = \frac{7\pi}{6}; \frac{11\pi}{6}}$

2) $\rightarrow \operatorname{ctg} x (\operatorname{ctg} x - 1) = 0 \Leftrightarrow$
 $\operatorname{ctg} x = 0 \vee \operatorname{ctg} x = 1$

$\boxed{x = \frac{\pi}{4}; \frac{\pi}{2}; \frac{5\pi}{4}; \frac{3\pi}{2}}$

3) $\rightarrow \operatorname{tg} x = -\frac{\sqrt{3}}{3} \rightarrow \boxed{x = \frac{5\pi}{6}; \frac{11\pi}{6}}$

4) $\Leftrightarrow \cos x = -\frac{\sqrt{3}}{2} \vee \sin x = 0$

$\boxed{x = \frac{5\pi}{6}; \frac{7\pi}{6}; 0; \pi}$

5) $\rightarrow \operatorname{tg} x (\operatorname{tg} x - \frac{1}{\sqrt{3}}) = 0 \Leftrightarrow \operatorname{tg} x = 0 \vee \operatorname{tg} x = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

$\boxed{x = 0; \pi; \frac{\pi}{6}; \frac{7\pi}{6}}$

(B) 1) $\sin x \neq -1 \rightarrow \boxed{x \neq \frac{3\pi}{2}}$

2) $\cos x \neq 0 \wedge \operatorname{ctg} x$ је дефинисано про $x \neq 0; \pi$

$\boxed{x \neq \frac{\pi}{2}; \frac{3\pi}{2}; 0; \pi}$

3) $\operatorname{tg} x \neq 0 \wedge \operatorname{tg}$ је def. про $x \neq \frac{\pi}{2}; \frac{3\pi}{2}$

$\boxed{x \neq 0; \pi; \frac{\pi}{2}; \frac{3\pi}{2}}$

