

$\sin x = \frac{1}{2}$   
 $x = \frac{\pi}{6} + 2\pi k$ ,  $k$  - любое целое число  
 $x = \frac{5\pi}{6} + 2\pi k$ ,  $k$  - любое целое число

$x = (-1)^k \arcsin(\frac{1}{2}) + \pi k$   
 $x = (-1)^k \frac{\pi}{6} + \pi k$   
 $k = 2t \Rightarrow x = \frac{\pi}{6} + 2\pi t$   
 $k = 2t + 1 \Rightarrow x = -\frac{\pi}{6} + \pi(2t + 1) = \pi - \frac{\pi}{6} + 2\pi t = \frac{5\pi}{6} + 2\pi t$

$\sin x = \frac{1}{3}$   
 $x = \arcsin(\frac{1}{3}) + 2\pi k$   
 $x = \pi - \arcsin(\frac{1}{3}) + 2\pi k$

$\cos x = -\frac{\sqrt{3}}{2}$   
 $x = \frac{5\pi}{6} + 2\pi k$   
 $x = \frac{7\pi}{6} + 2\pi k$      $x = -\frac{5\pi}{6} + 2\pi k$

$\cos x = -\frac{1}{3}$   
 $x = \arccos(-\frac{1}{3}) + 2\pi k$   
 $x = -\arccos(-\frac{1}{3}) + 2\pi k$

$x = \pm \arccos(-\frac{1}{3}) + 2\pi k$

