

## Домашнее задание №2

**Задача 4.** Построить фазовый портрет

1.  $\ddot{x} - \sin x (2 \cos x - 1) = 0$
2.  $\ddot{x} + \cos x (2 \sin x - 1) = 0$
3.  $\ddot{x} - \sin x (2 \cos x - 1) = 0$
4.  $\ddot{x} - \cos x (2 \cos x + 1) = 0$
5.  $\ddot{x} + \sin x (\cos x - 1) = 0$
6.  $\ddot{x} + \cos x (\sin x + 1) = 0$
7.  $\ddot{x} - \sin 2x + \sqrt{3} \cos x = 0$
8.  $\ddot{x} - \sin 2x + \sqrt{2} \sin x = 0$
9.  $\ddot{x} - \sin 2x - \sqrt{3} \sin x = 0$
10.  $\ddot{x} + \sin 2x + \sqrt{2} \cos x = 0$
11.  $\ddot{x} + \sin 2x + \sqrt{3} \cos x = 0$
12.  $\ddot{x} + \sin x (2 \cos x - 1) = 0$
13.  $\ddot{x} + 2 \sin x (\sqrt{2} \cos x + 1) = 0$
14.  $\ddot{x} - \sqrt{3} \sin x (2 \cos x - \sqrt{3}) = 0$
15.  $\ddot{x} + \sin x (2 \cos x + 1) = 0$
16.  $\ddot{x} + \sin x (2 \cos x + \sqrt{3}) = 0$
17.  $\ddot{x} + \sin 2x - \sqrt{3} \sin x = 0$
18.  $\ddot{x} + \cos 2x - \cos x = 0$
19.  $\ddot{x} - \sin 2x - \sin x = 0$
20.  $\ddot{x} - \sin 2x + \sqrt{3} \cos x = 0$
21.  $\ddot{x} - \sin 2x + \sqrt{2} \sin x = 0$
22.  $\ddot{x} - \sin x (\sqrt{2} \cos x - 1) = 0$
23.  $\ddot{x} - \sin 2x - \sqrt{3} \cos x = 0$
24.  $\ddot{x} + \cos x (2 \cos x + 1) = 0$
25.  $\ddot{x} - \sin x (\cos x + 1) = 0$