Занятие №8

1. $7^x + 2 \cdot 7^{1-x} - 9 = 0$

2. $\dfrac{3^{x+1}+5}{3^x-1} - \dfrac{3^{x+1}-5}{3^x+1} = 6$

3. $\sin\dfrac{x}{2} = -\dfrac{\sqrt{2}}{2}$

4. $\cos\left(x + \dfrac{\pi}{6}\right) = -\dfrac{\sqrt{3}}{2}$

5. $\sin^2 x = \dfrac{1}{5}$

6. $\sin^2 x + 2\cos x - 2 = 0$

7. $\cos 2x + \cos x = 0$

8. $2\sin^2 x = 3\cos x$

9. $\sin 3x \cos x + \sin x \cos 3x = 0$

10. $\sin x \cos\dfrac{\pi}{3} + \sin\dfrac{\pi}{3}\cos x = 0$

11. $2\cos 2x - 5 = 8\sin x$

12. $\dfrac{\sqrt{3}}{2}\sin x - \dfrac{1}{2}\cos x = \dfrac{\sqrt{3}}{2}$