

Тренировочная работа 5

Решите уравнение.

1. $2 \cos\left(2x + \frac{\pi}{9}\right) + \sqrt{3} = 0.$

2. $\sin\left(\frac{3\pi x}{2} - \frac{\pi}{3}\right) = \cos\left(\frac{\pi}{6} - \pi x\right).$

3. $(2 \sin x - \cos x)(2 \cos x - \sin x) = \sin 2x.$

4. $(5 \cos x - 9)(\sqrt{3} \operatorname{tg} x - 1) = 0.$

5. $6 \sin^2 x + 13 \sin x + 5 = 0.$

6. $5 \sin 2x = 2 \cos x.$

7. $\frac{(2x - 9\pi)(5x - 9\pi)(8x - 9\pi)}{\sqrt{\cos x}} = 0.$

8. $\frac{2 \sin x + \sqrt{3}}{\sqrt{\operatorname{tg} x}} = 0.$

9. $\frac{\cos 4x}{\sin 4x + 1} = 0.$

10. $\sqrt{4 - 5 \sin x} = \sqrt{2} \cos x.$

11. $\frac{(7y - 9\pi)(9y - 7\pi)}{\sqrt{\sin y}} = 0.$

12. $\frac{\cos y(8 \cos y - 7)}{\sin y + 1} = 0.$