

Trigonometric Equations pt.1

Trigonometrische Vergelijkingen

$tg()=tan()$

- 13.1.**
- | | |
|---|---|
| 1) $\sin x = 0;$ | 2) $\sin x = \frac{1}{2};$ |
| 3) $\sin x = \frac{\sqrt{2}}{2};$ | 4) $\sin x = \frac{\sqrt{3}}{2};$ |
| 5) $\sin x = -\frac{\sqrt{2}}{2};$ | 6) $\sin x = -1;$ |
| 7) $\sin 3x = -\frac{1}{\sqrt{2}};$ | 8) $\sin \frac{x}{3} = 1;$ |
| 9) $\sin(5x + 30^\circ) = \frac{1}{\sqrt{2}};$ | 10) $\sin\left(20^\circ - \frac{x}{3}\right) = \frac{\sqrt{3}}{2};$ |
| 11) $\sin\left(\frac{x}{3} - \frac{\pi}{6}\right) = -\frac{\sqrt{3}}{2};$ | 12) $\sin\left(\frac{3}{4}\pi - 4x\right) = -1.$ |
- 13.2.**
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|--|--|
| 1) $\cos x = 0;$ | 2) $\cos x = \frac{1}{2};$ |
| 3) $\cos x = \frac{\sqrt{3}}{2};$ | 4) $\cos x = \frac{\sqrt{2}}{2};$ |
| 5) $\cos x = -\frac{1}{2};$ | 6) $\cos x = -1;$ |
| 7) $\cos 5x = -\frac{1}{\sqrt{2}};$ | 8) $\cos \frac{x}{4} = \frac{1}{2};$ |
| 9) $\cos(20^\circ - 5x) = \frac{\sqrt{3}}{2};$ | 10) $\cos\left(\frac{3}{2}x - 15^\circ\right) = -1;$ |
| 11) $\cos\left(\frac{x}{2} - \frac{\pi}{18}\right) = 1;$ | 12) $\cos\left(\frac{\pi}{3} - \frac{x}{3}\right) = -\frac{1}{2}.$ |
- 13.3.**
- | | |
|---|---|
| 1) $tgx = 0;$ | 2) $tgx = \sqrt{3};$ |
| 3) $tgx = 1;$ | 4) $tgx = \frac{1}{\sqrt{3}};$ |
| 5) $tgx = -\sqrt{3};$ | 6) $tgx = -1;$ |
| 7) $tg(2x + 60^\circ) = -1;$ | 8) $tg\left(\frac{\pi}{3} - 5x\right) = \sqrt{3};$ |
| 9) $tg(45^\circ - 3x) = -\frac{\sqrt{3}}{3};$ | 10) $tg\left(\frac{x}{3} - \frac{\pi}{4}\right) = -\sqrt{3}.$ |