Solving Trigonometric Equations · 1

Solve: $3 \sin x = \sin x + \sqrt{3}$

Solving Trigonometric Equations · 2

Solve: $4 \tan x = 3 \tan x + \sqrt{3}$

Solving Trigonometric Equations · 3

Solve: $5 \sin x = 3 \sin x + \sqrt{3}$

Solving Trigonometric Equations · 4

Solve: $4 \tan x + 1 = 3 \tan x + 1$

Solving Trigonometric Equations · 5

Solve: $3 \sin x - 5 = 2 \sin x - 5$

Solving Trigonometric Equations · 6

Solve: $4 \sin x + 4 = 3 \sin x + 4$

Solving Trigonometric Equations · 7

Solve: $2 \tan x - 4 = \tan x - 5$

Solving Trigonometric Equations · 8

Solve: $4 \sin x - 2 = 3 \sin x - 2$

Solving Trigonometric Equations · 2

ANSWER

$x = 60° \text{ or } x = 240°$

Solving Trigonometric Equations · 1

ANSWER

$x = 60° \text{ or } x = 120°$

Solving Trigonometric Equations · 4

ANSWER

$x = 0° \text{ or } x = 180°$

Solving Trigonometric Equations · 3

ANSWER

$x = 60° \text{ or } x = 120°$

Solving Trigonometric Equations · 6

ANSWER

$x = 0° \text{ or } x = 180°$

Solving Trigonometric Equations · 5

ANSWER

$x = 0° \text{ or } x = 180°$

Solving Trigonometric Equations · 8

ANSWER

$x = 0° \text{ or } x = 180°$

Solving Trigonometric Equations · 7

ANSWER

$x = 135° \text{ or } x = 315°$

Solve: $3 \cos x + 2 = \cos x + 3$

Solve: $4 \tan x = 3 \tan x - \sqrt{3}$

Solve: $4 \tan x + 2 = 3 \tan x + 1$

Solve: $4 \tan x = \tan x + \sqrt{3}$

Solve: $3 \tan x = 2 \tan x + \sqrt{3}$

Solve: $4 \cos x + 6 = 3 \cos x + 7$

Solve: $3 \cos x + 3 = 2 \cos x + 4$

Solve: $6 \tan x = 3 \tan x + \sqrt{3}$

Solving Trigonometric Equations · 10

ANSWER

$x = 120° \text{ or } x = 300°$

Solving Trigonometric Equations · 9

ANSWER

$x = 60° \text{ or } x = 300°$

Solving Trigonometric Equations · 12

ANSWER

$x = 30° \text{ or } x = 210°$

Solving Trigonometric Equations · 11

ANSWER

$x = 135° \text{ or } x = 315°$

Solving Trigonometric Equations · 14

ANSWER

$x = 0°$

Solving Trigonometric Equations · 13

ANSWER

$x = 60° \text{ or } x = 240°$

Solving Trigonometric Equations · 16

ANSWER

$x = 30° \text{ or } x = 210°$

Solving Trigonometric Equations · 15

ANSWER

$x = 0°$

Solve: $3 \tan x - 6 = 2 \tan x - 7$

Solve: $3 \sin x = \sin x - \sqrt{2}$

Solve: $4 \sin x = 2 \sin x + \sqrt{2}$

Solve: $3 \tan x + 1 = 2 \tan x + 2$

Solve: $3 \cos x - 4 = 2 \cos x - 4$

Solve: $4 \tan x = \tan x - \sqrt{3}$

Solve: $5 \cos x = 3 \cos x - \sqrt{3}$

Solve: $2 \cos x + 1 = \cos x + 1$

Solving Trigonometric Equations · 18

ANSWER

$x = 225° \text{ or } x = 315°$

Solving Trigonometric Equations · 17

ANSWER

$x = 135° \text{ or } x = 315°$

Solving Trigonometric Equations · 20

ANSWER

$x = 45° \text{ or } x = 225°$

Solving Trigonometric Equations · 19

ANSWER

$x = 45° \text{ or } x = 135°$

Solving Trigonometric Equations · 22

ANSWER

$x = 150° \text{ or } x = 330°$

Solving Trigonometric Equations · 21

ANSWER

$x = 90° \text{ or } x = 270°$

Solving Trigonometric Equations · 24

ANSWER

$x = 90° \text{ or } x = 270°$

Solving Trigonometric Equations · 23

ANSWER

$x = 150° \text{ or } x = 210°$