



Reteaching

14.6 Solving Trigonometric Equations

◆ Skill A Solving trigonometric equations algebraically and graphically

Recall Trigonometric equations are true only for certain values of the variable, unlike identities which are true for all values of the variable.

◆ Example 1

Find all the solutions for each equation algebraically.

a. $\sin \theta + \sqrt{3} = -\sin \theta$

b. $2 \cos^2 \theta = 5 \cos \theta + 2 = 0$

◆ Solution

a. $\sin \theta + \sqrt{3} = -\sin \theta$

$$2 \sin \theta = -\sqrt{3}$$

$$\sin \theta = \frac{-\sqrt{3}}{2}$$

$$\theta = 240^\circ + n(360^\circ)$$

$$\text{or } 300^\circ + n(360^\circ)$$

where n is any integer

b. $2 \cos^2 \theta = 5 \cos \theta + 2 = 0$

$$(2 \cos \theta - 1)(\cos \theta - 2) = 0$$

$$2 \cos \theta - 1 = 0 \quad \text{or} \quad \cos \theta - 2 = 0$$

$$2 \cos \theta = 1 \quad \text{or} \quad \cos \theta = 2$$

$$\cos \theta = \frac{1}{2} \quad (\text{not possible})$$

$$\theta = 60^\circ + n(360^\circ)$$

$$\text{or } 300^\circ + n(360^\circ)$$

◆ Example 2

Solve $\sin x = 2 \cos x$ for $0 \leq x < 2\pi$ graphically.

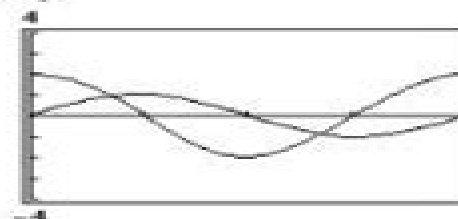
◆ Solution

$$\sin x = 2 \cos x$$

Use radian mode on your calculator.

$$y_1 = \sin x \text{ and } y_2 = 2 \cos x$$

These two graphs intersect at $x \approx 1.11$ and $x \approx 4.25$, which are the solutions of the original equation.



Find all possible solutions for each equation algebraically.

1. $2 \cos \theta + \sqrt{3} = 0$

2. $\tan \theta - \sqrt{3} = 0$

3. $2 \sin^2 \theta + \sin \theta = 0$

4. $\sin^2 \theta + 5 \sin \theta + 6 = 0$

Solve each equation for $0 \leq x < 2\pi$ graphically.

5. $2 \cos^2 x = \cos x + 1$

6. $\sin x = \sin \frac{1}{2}x$

7. $\tan^2 x = 1 - \tan x$

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

Reteaching 14 1 Trigonometric Identities Answers

Tobias Bleicker



Reteaching 14 1 Trigonometric Identities Answers:

Glencoe Algebra 1 ,2001 **Algebra 2** McDougal Littell Incorporated,Ron Larson,2004 *New York Math: Math B*
,2000 Trigonometry Christine Tootill,2010

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<https://lulla.care/files/publication/HomePages/Mercruiser%20305%20Power%20Trim%20Manual.pdf>

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