

Solving Basic Trigonometric Equations Task Cards

Speed Dating – Arrange desks in two rows. Each student receives a card, works the problems on the card, checks their answer. Then, the students trade cards with their partner sitting across from them and work the problem on the new card. They are now sitting across the “expert” for that problem. The “dates” then discuss the problem until both dates are satisfied. One row will then change a seat over leaving one student as expert to help the new date. This process continues until all of the cards are completed. May take more time at the beginning and will proceed faster at the end.

7

$$3\tan^2(x) - 1 = 0$$

8

$$2\sin^2(x) - \sin(x) - 1 = 0$$

9

$$7 + \cos(x) = 4 - 5\cos(x)$$

10

$$-5 - 2\cos(x) = -2 + \cos(x)$$

1

$$\sin(x) + 2 = 0$$

2

$$\tan^2(x) + 3 = 0$$

3

$$2\cos^2(x) - \sqrt{3}\cos(x) = 0$$

4

$$\sin^2(x) - \sin(x) = 2$$

5

$$2\sin(x) - 1 = 0$$

6

$$\sin(x) + \sqrt{2} = -\sin(x)$$