

Chapter 5: Trigonometric Functions of Angles

In the previous chapters we have explored a variety of functions which could be combined to form a variety of shapes. In this discussion, one common shape has been missing: the circle. We already know certain things about the circle, like how to find area and circumference, and the relationship between radius and diameter, but now, in this chapter, we explore the circle and its unique features that lead us into the rich world of trigonometry.

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Section 5.1 Circles

To begin, we need to remember how to find distances. Starting with the Pythagorean Theorem, which relates the sides of a right triangle, we can find the distance between two points.

Pythagorean Theorem

The **Pythagorean Theorem** states that the sum of the squares of the legs of a right triangle will equal the square of the hypotenuse of the triangle.

In graphical form, given the triangle shown, $a^2 + b^2 = c^2$.



We can use the Pythagorean Theorem to find the distance between two points on a graph.

Example 1

Find the distance between the points $(-3, 2)$ and $(2, 5)$.

By plotting these points on the plane, we can then draw a right triangle with these points at each end of the hypotenuse. We can calculate horizontal width of the triangle to be 5 and the vertical height to be 3. From these we can find the distance between the points using the Pythagorean Theorem:



$$dist^2 = 5^2 + 3^2 = 34$$

$$dist = \sqrt{34}$$

Chapter 5 Trigonometric Functions Answers

Jianjun Gao



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