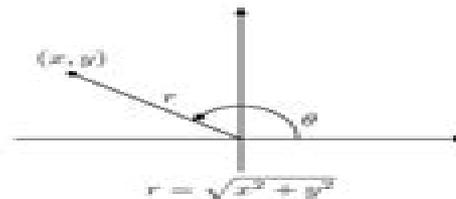


Chapter 15

Section 1

Recall that when we first looked at trig all our angles were acute. What do we do if the angle is not in the first quadrant and we want to find $\sin \theta$. Suppose we have

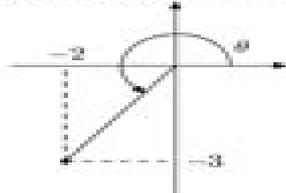


Then

$$\sin \theta = \frac{y}{r}.$$

In fact no matter what quadrant the angle lies in the trig functions are defined exactly as before.

Example 1. Evaluate the trig functions if θ is given by



So to evaluate the trig functions at any angle with the calculator all you have to do is just plug the angle in and hit the button.

Example 2.

1. $\sin 30^\circ =$
2. $\cos 120^\circ =$
3. $\tan -45^\circ =$

We now want to look at the inverse trig functions. Recall that in order for a function to have an inverse it must be one-to-one. But $\sin \theta$ is not one-to-one!

Advanced Technical Mathematics

Michal Rosen-Zvi



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