The terminal side of the angle here is rr α ≻ х Starting α from the positive *x*-

We'll worry about the length of *r* later

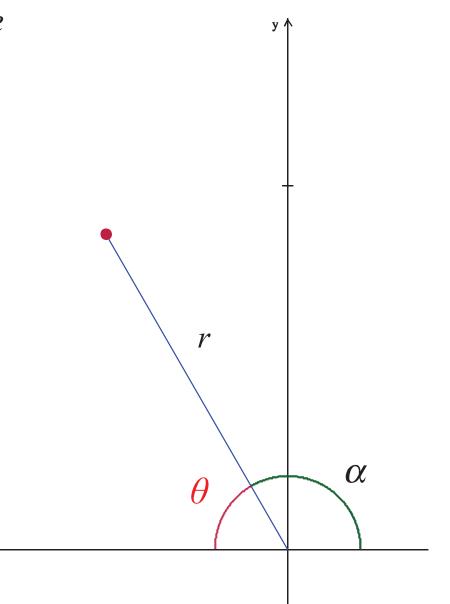
axis is called <u>Standard Position</u>

 θ is called the *reference angle*

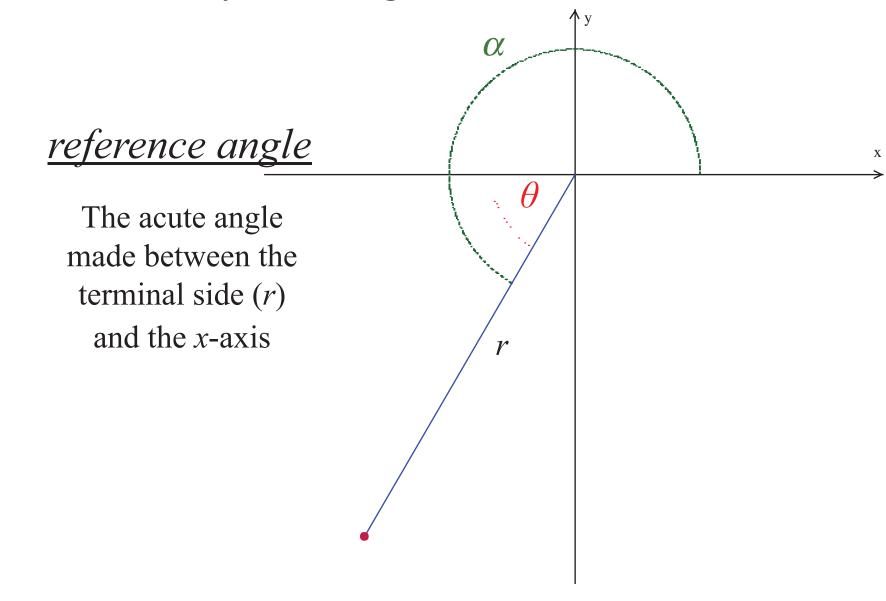
reference angle

The acute angle made between the terminal side (*r*) and the *x*-axis

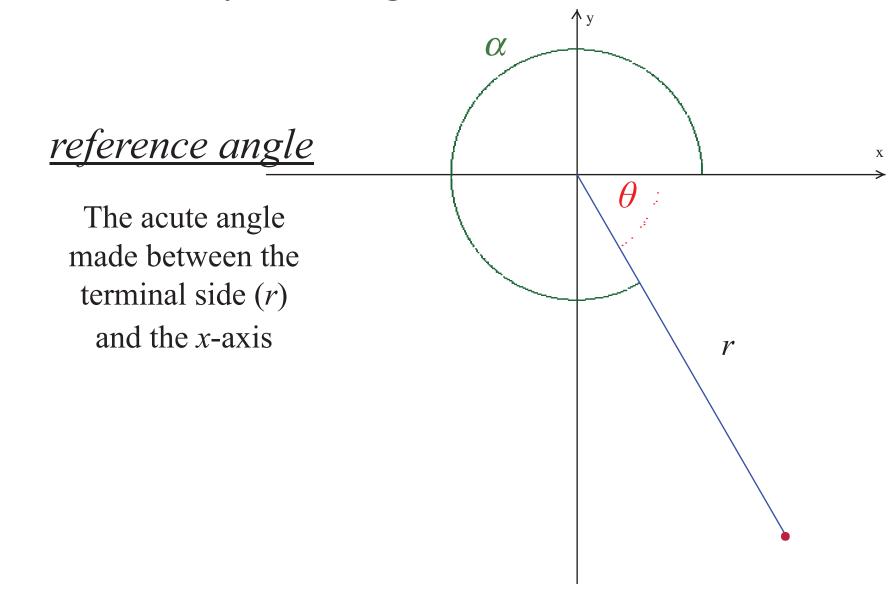
More on this later

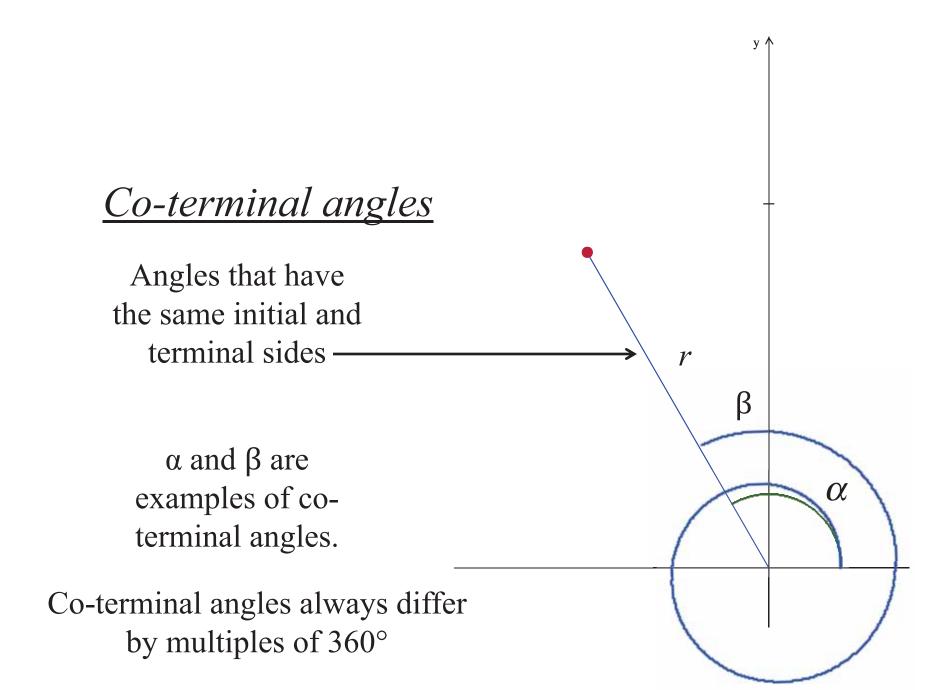


 θ is called the *reference angle*

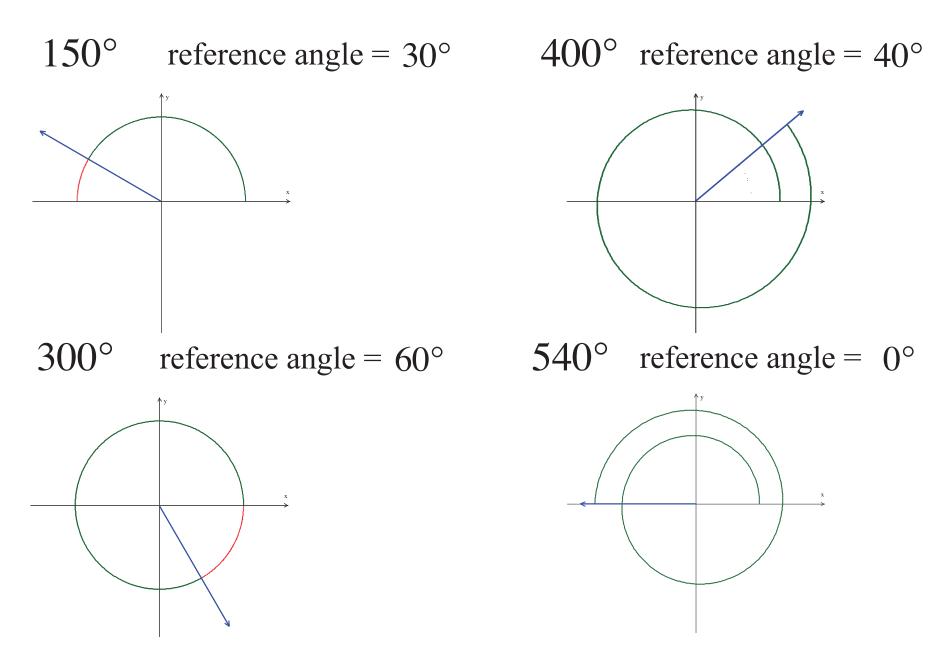


 θ is called the *reference angle*



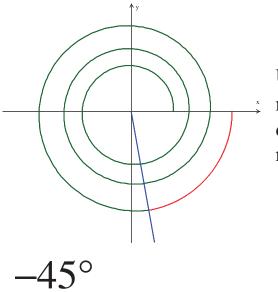


Draw the given angles on the *x*-*y* plane



Draw the given angles on the *x*-*y* plane

 1000° reference angle = 80° -170°



Use your calculator and multiples of 360° to determine how many rotations

-250°

First divide the degree measure by 360 to determine the number of rotations

So the angle is two rotations clockwise plus some fraction of 360°

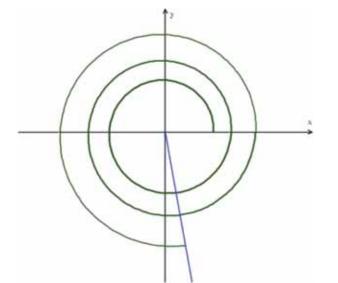
We subtract 2 so that we are just left with the decimal

Then we multiply that decimal by 360 to find the number of degrees in the partial rotation.

And we know that 280° is in Quadrant IV

TEXAS INSTRUMENTS

1000/360 2.7777777778 Ans-2 Ans*360 280



One Rotation

Two Rotations

Then add 280°

Draw the given angles on the *x*-*y* plane

