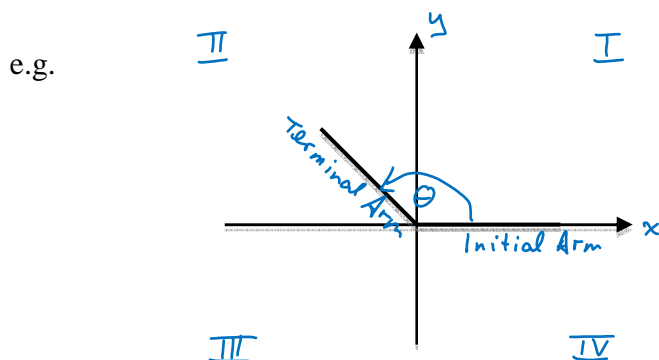


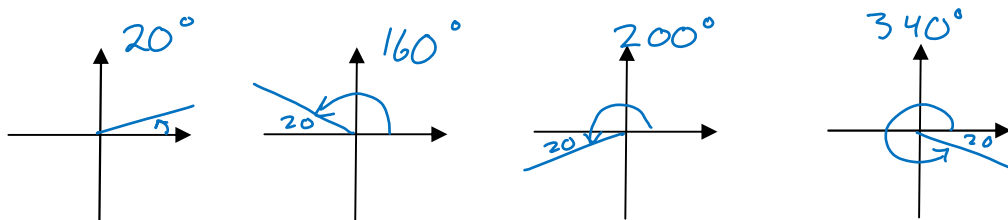
1. Angles in Standard Position

In standard position, the angle is based upon the origin of the Cartesian plane, with the initial arm lying on the positive x-axis, and the terminal arm in any of the 4 quadrants.



- The reference angle is the positive angle between the Terminal arm & the x-axis, and is always between 0° & 90° .

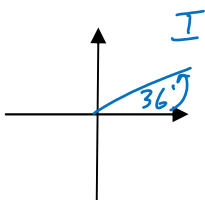
e.g. four angles with reference angles of 20° are:



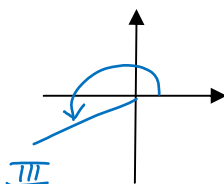
Example 1: p.79

Sketch each angle in standard position, and give the quadrants in which they lie:

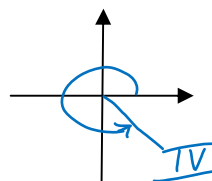
a) 36°



b) 210°



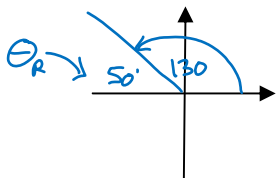
c) 315°



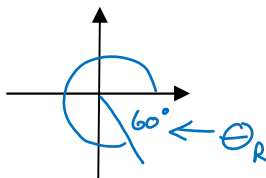
Example 2: p.80

Determine the reference angle Θ_R for each angle Θ . Sketch Θ in standard position and label the reference angle Θ_R .

a) 130°

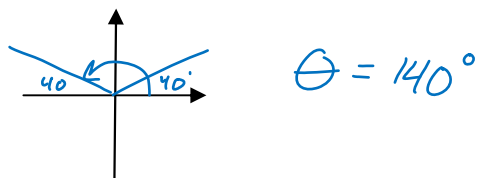


b) 300°

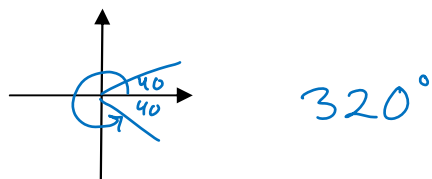


Example 3: p.81 Determine the angle in standard position when 40° is reflected:

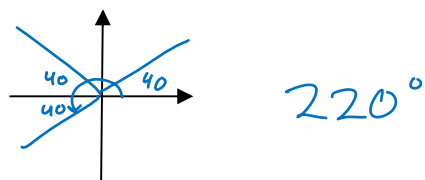
a) in the y-axis



b) in the x-axis



c) in the y-axis and then x-axis



Assignment: p.81 #1-6, 9, 10, 14