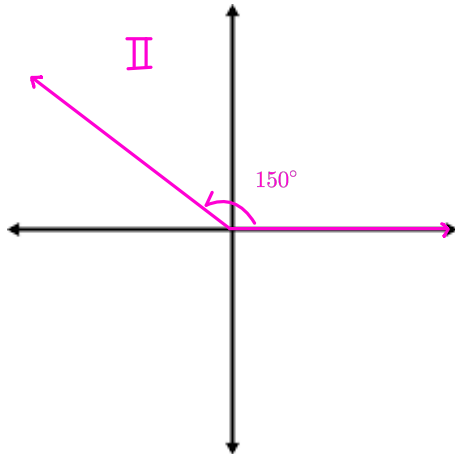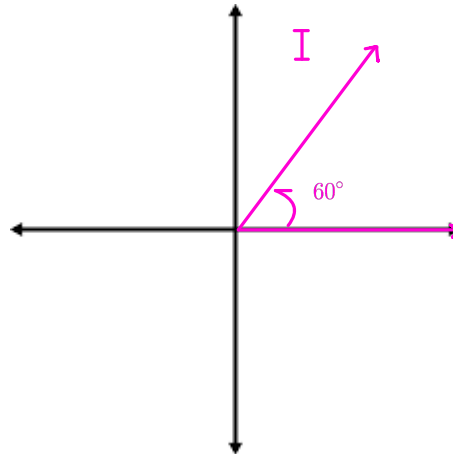Name: _____   Date: _____

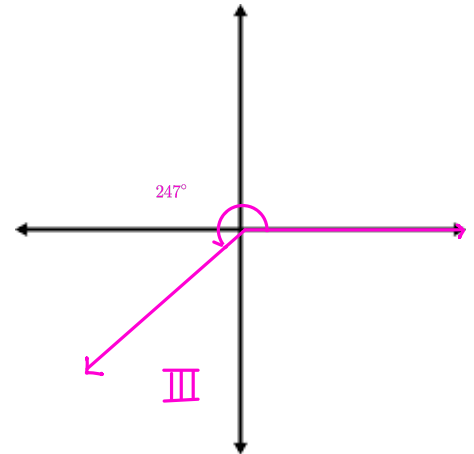| Learning Goal 2.1	Using angles in standard position and relating them to special angle triangles, the unit circle, reference and co-terminal angles and the terminal arm.

Sketch each angle in standard position. State the quadrant in which the terminal arm lies. Find the value of the reference angle.
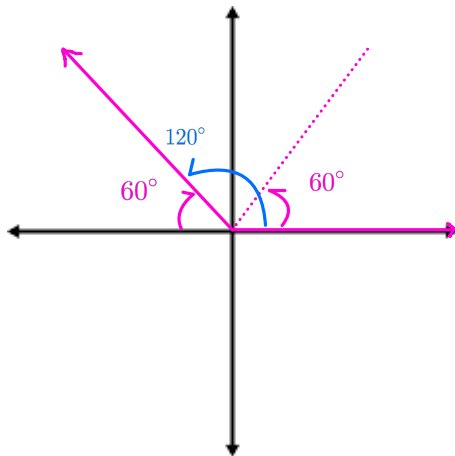
a. 150°

$\theta_R = 180° - 150°$
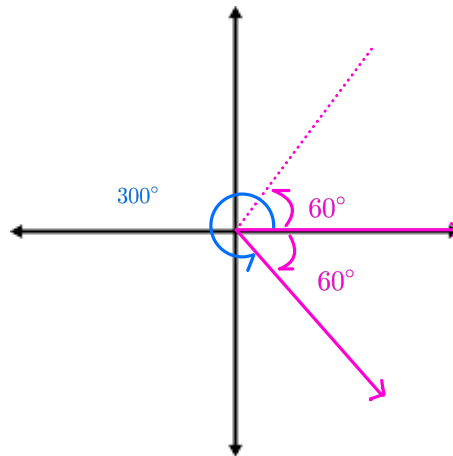$\quad = 30°$

b. 60°

$\theta_R = 0° + 60°$
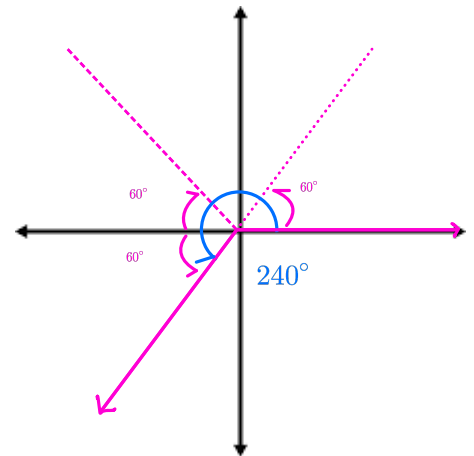$\quad = 60°$

c. 247°

$\theta_R = 247° - 180°$
$\quad = 67°$

Example Determine the angle in standard position when an angle of 60° is reflected
a. over the $y -$ axis

$\theta_R = 180° - 60°$
$\quad = 120°$

b. over the $x -$ axis

$\theta_R = 360° - 60°$
$\quad = 300°$

c. over the $y -$, then the $x -$ axis

$\theta_R = 180° + 60°$
$\quad = 240°$

Assignment   p. 83 #1 – 7, 9, 11, 16   Quiz Next Day!