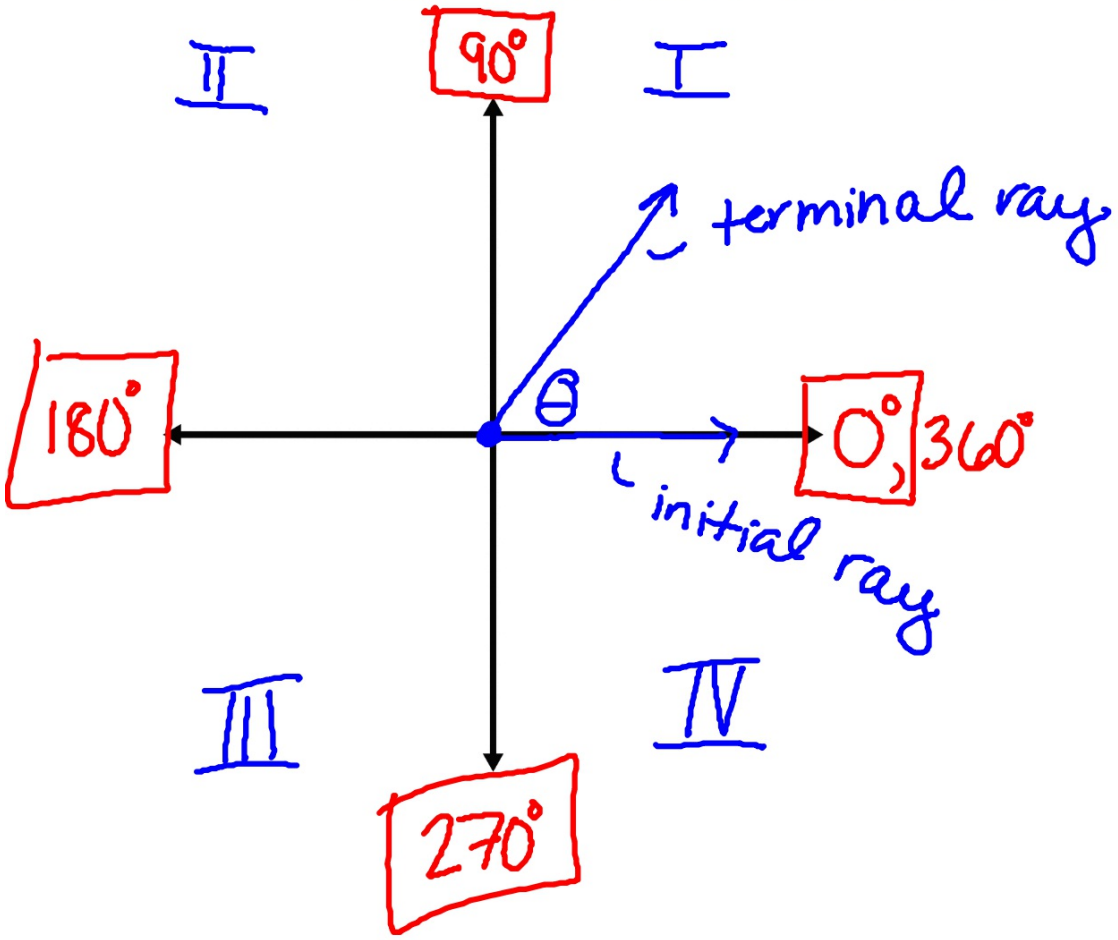
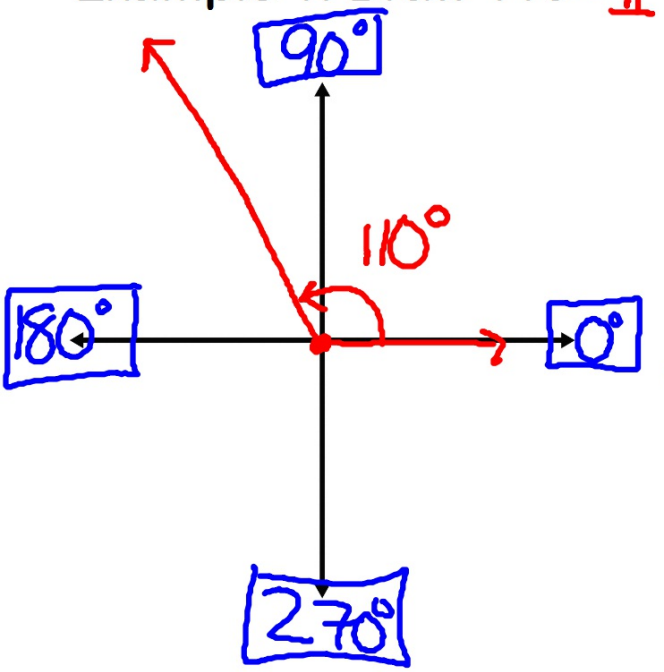
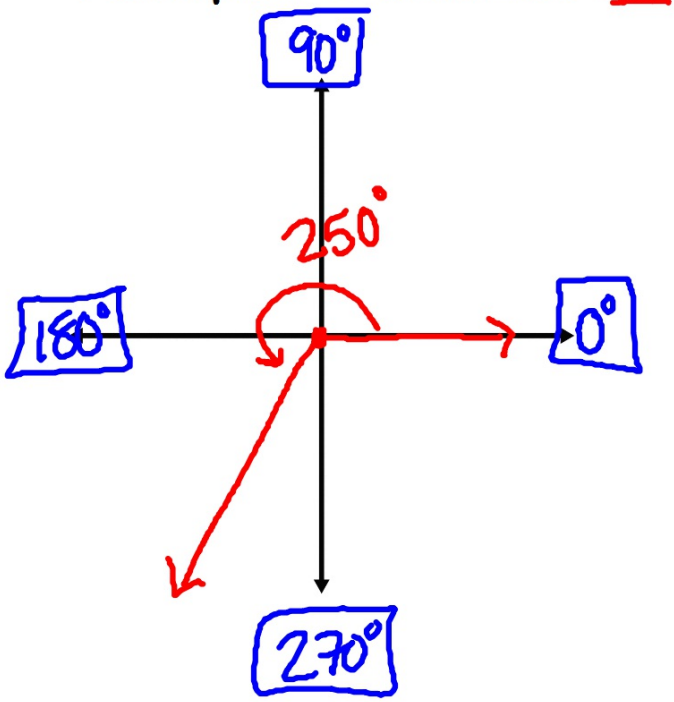
Angles in Standard Position



Example 1: Draw 110° - II

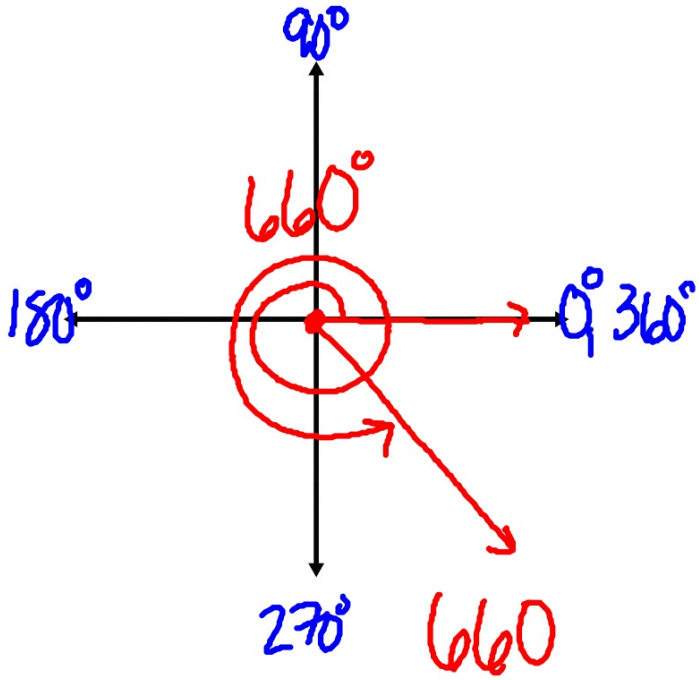


Example 2: Draw 250° - III



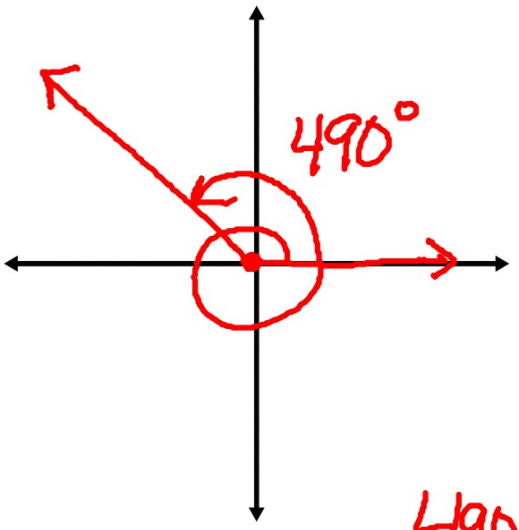
☆ Positive angles are counterclockwise

Example 3: Draw 660° - IV



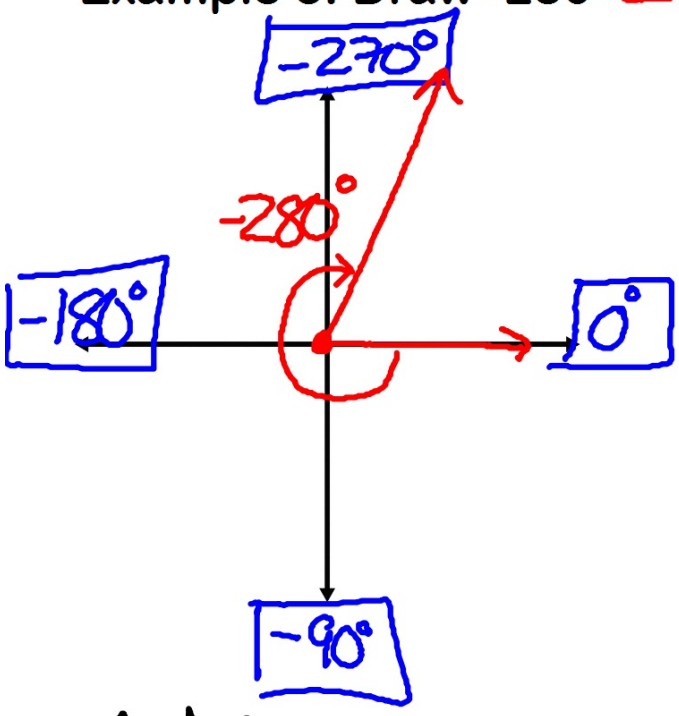
660
-360
300

Example 4: Draw 490° - II

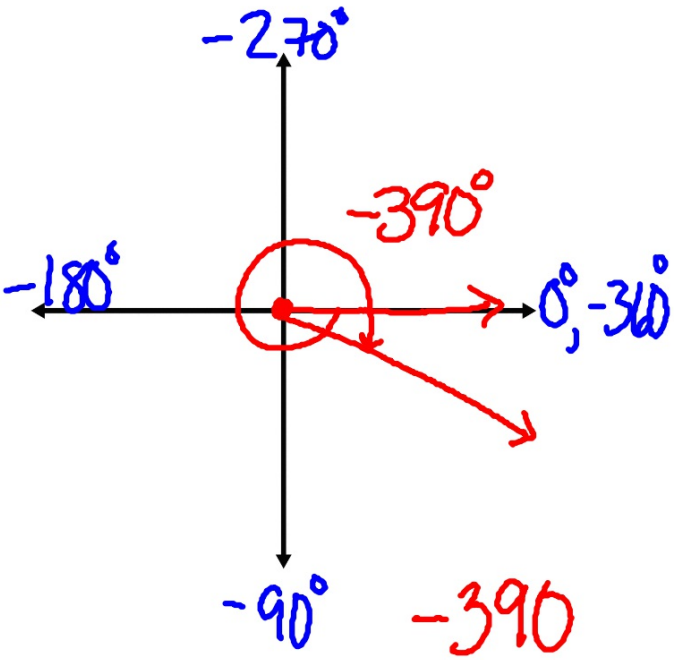


490
-360
130

Example 5: Draw -280° I



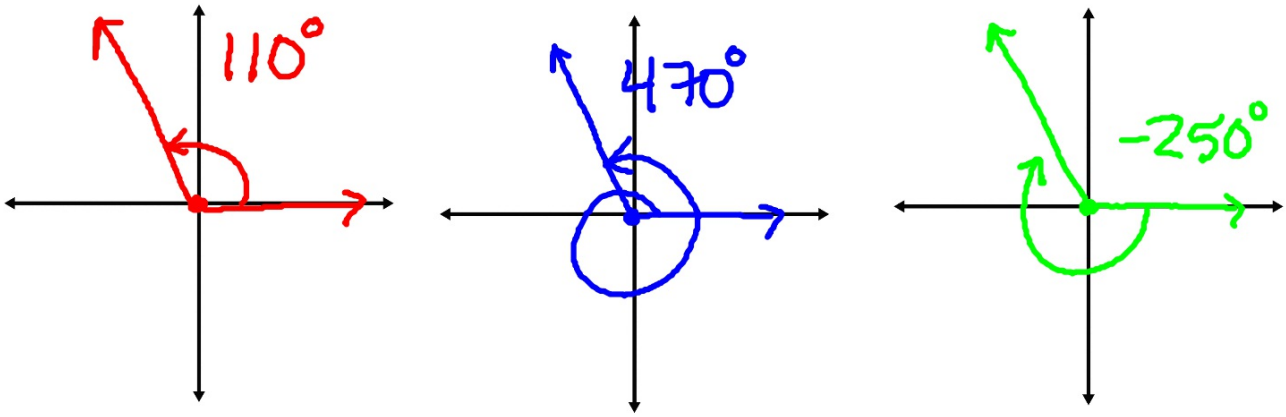
Example 6: Draw -390° IV



-390
+360
-30

☆ Negative angles are clockwise

Coterminal Angles: angles with the terminal ray in the same position



* To find coterminal angles +/- 360°

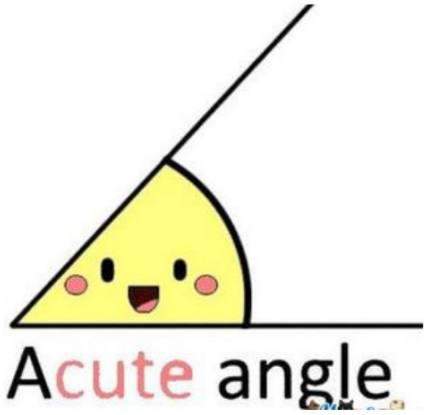
Find two positive and two negative Coterminal Angles for a 40° angle.

$40° + \boxed{360°} = 400°$

$40° + \boxed{360°} + \boxed{360°} = 760°$

$40° - \boxed{360°} = -320°$

$40° - \boxed{360°} - \boxed{360°} = -680°$



Complementary Angles:

Two angles that add to 90°

Supplementary Angles:

Two angles that add to 180°

Find the angles that are complementary and supplementary to 70° and 92°

① Complementary: $70°$ $20°$

$90 - 70 = 20°$

Supplementary: $70°$ $110°$

$180 - 70 = 110°$

② Complementary: ~~92°~~ $90 - 92 = -2$

Supplementary: $92°$, $88°$ $180 - 92 = 88$

Homework is Page 6.6 in Packet