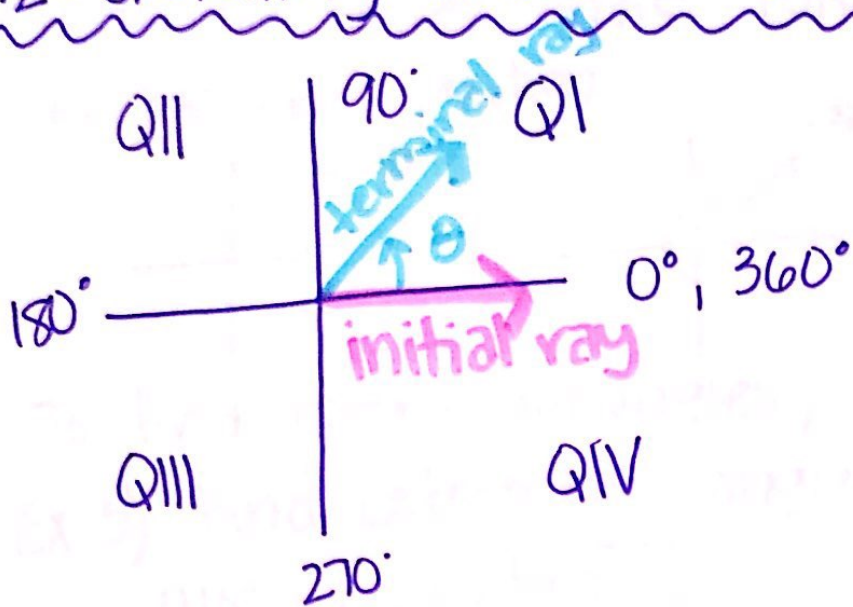


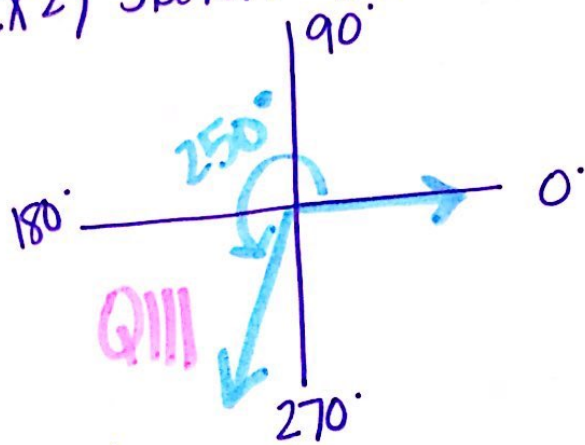
## 7.2: Sketching Angles in standard position



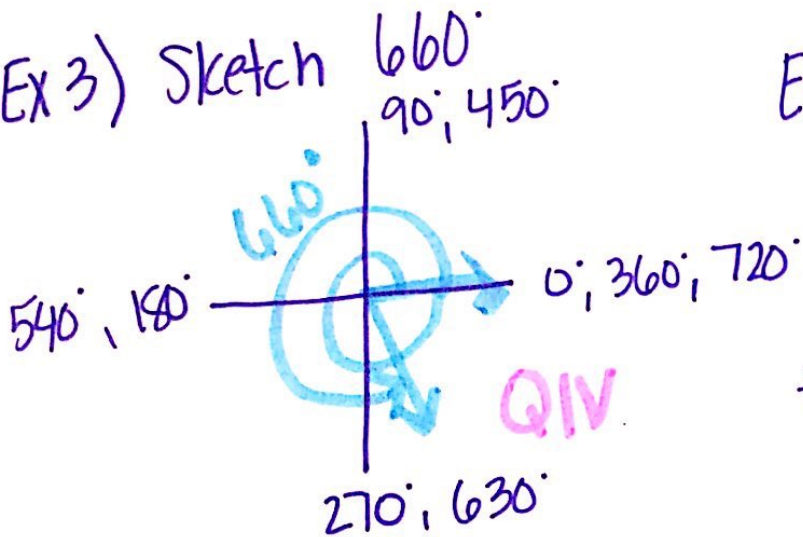
Ex 1) sketch  $110^\circ$



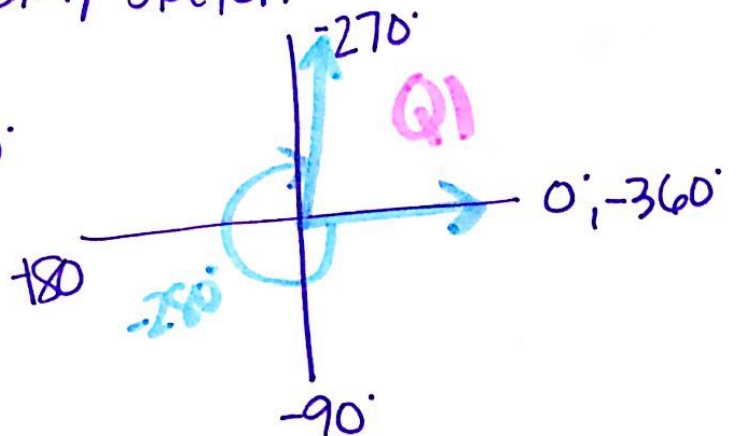
Ex 2) sketch  $250^\circ$



Ex 3) sketch  $660^\circ$



Ex 4) sketch  $-280^\circ$

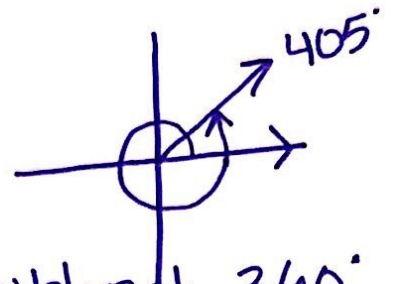
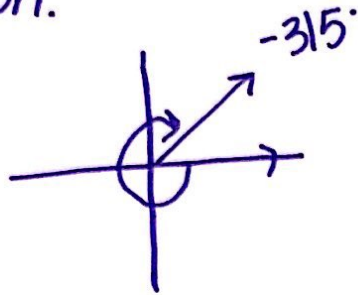
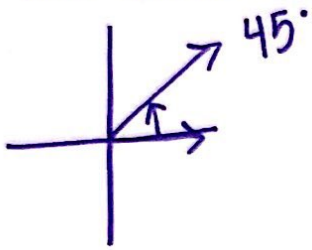


you try:

sketch  $190^\circ$

sketch  $-45^\circ$

◦ coterminal angles: angles with the terminal ray in the same position.



To find coterminal angles, add/subtract 360°

Ex 5) Find coterminal angle for 410°.

$$410^\circ + 360^\circ = \boxed{770^\circ} + 360^\circ = \boxed{1130^\circ}$$

$$410^\circ - 360^\circ = \boxed{50^\circ} - 360^\circ = \boxed{-310^\circ} - 360^\circ = \boxed{-670^\circ}$$

◦ complementary angles: two angles that add up to 90°

◦ supplementary angles: two angles that add up to 180°

Ex 6) Find complement & supplement

70°

$$90 - 70 = \boxed{20^\circ} \text{ complement}$$

$$180 - 70 = \boxed{110^\circ} \text{ supplement}$$

92°

$$90 - 92 = \cancel{2} \text{ no complement}$$

$$180 - 92 = \boxed{88} \text{ supplement}$$