| FST       | Name: |        |
|-----------|-------|--------|
| Notes 3.3 | Date: | Block: |

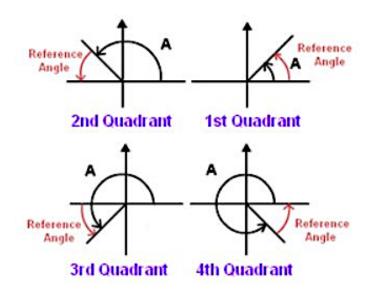
## 3.3: Standard Position, Conterminal, & Reference Angles

| Standard Position                      | Definition:   | terminal side        |
|--|---|----------------------|
| Draw an angle with the<br>Four Corners | e given measure in standard position.<br>a) $240^{\circ}$ | b) —450°             |
|  | u) 240  | 0) 130               |
| c) 500°                                | d) —50°   | e) 95°               |
|  |   | Ternina side<br>405° |
| Conterminal Angles                     | Definition:   | -315° Initial side   |

Sketch the angle 120°. List three angles that are conterminal with 120°.

## **Reference Angle Relationships**

Definition:



**Examples:** Find the reference angle for the angle given below. a)  $120^{\circ}$  b)  $-57^{\circ}$  c)  $480^{\circ}$  d)  $-115^{\circ}$ 

| <b>Practice:</b> Find the reference angle for the angle given below. |          |         |          |  |  |
|--|----------|---------|----------|--|--|
| a) 260°  | b) —650° | c) 300° | d) -800° |  |  |