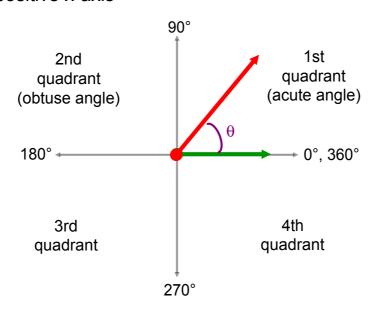


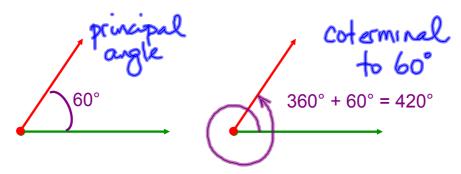
#### Definitions:

1. Standard Position - an angle is in <u>standard position</u> if the vertex is at the origin and the initial arm is on the positive x-axis



Apr 19-9:19 PM

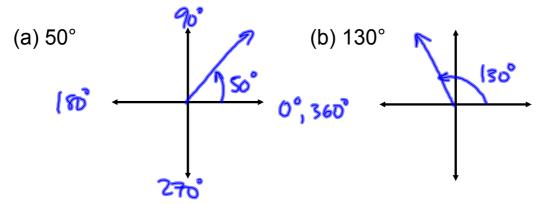
- 2. Principal Angle an angle between 0° and 360°.
- 3. Coterminal Angle(s) angles that share the same initial and terminal arm.

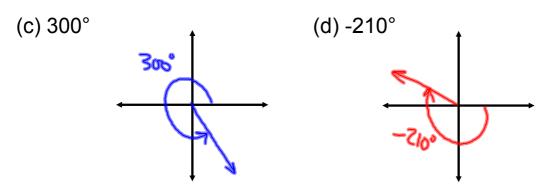


- 4. Related Acute Angle / Reference Angle
  - an angle formed between the terminal arm and the (closest part of the) x-axis.
    - always positive
    - always acute (0° <  $\theta$  < 90°)

Apr 19-9:13 PM







Dec 10-10:43 PM

### Ex.2 State the principal angle of:

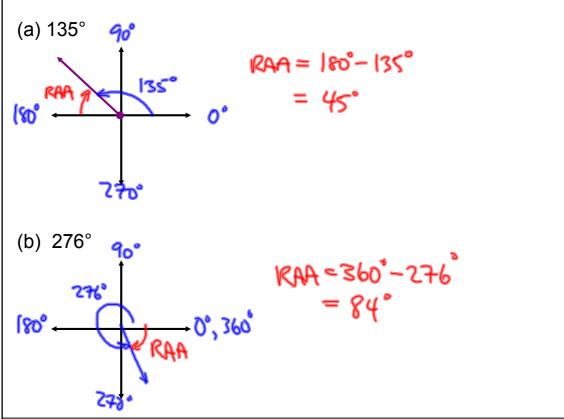
(a) 
$$463^{\circ}$$
 (b)  $940^{\circ}$  (c)  $-387^{\circ}$   $\frac{-360^{\circ}}{103^{\circ}}$   $\frac{-360^{\circ}}{580^{\circ}}$   $\frac{+360^{\circ}}{-27^{\circ}}$   $\frac{-360^{\circ}}{103^{\circ}}$   $\frac{-360^{\circ}}{103^{\circ}}$ 

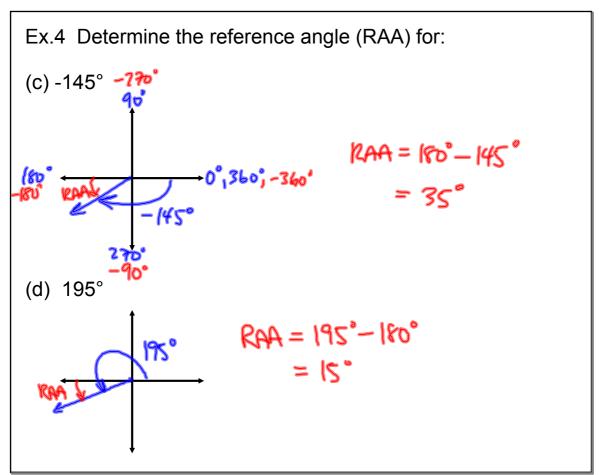
#### Ex.3 State 3 coterminal angles of:

(a) 
$$115^{\circ} + 360^{\circ} = 475^{\circ}$$
 (b)  $28^{\circ} + 360^{\circ} = 368^{\circ}$   $+720^{\circ} = 748^{\circ}$   $+1080^{\circ} = 1108^{\circ}$ 

Apr 21-12:13 AM

## Ex.4 Determine the reference angle (RAA) for:





Apr 21-12:14 AM

# Assigned Work:

(Handout) p.422 # 3 - 9 (odd), 11a