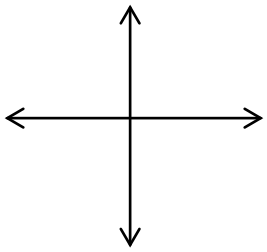
HW 6.2 Name _____

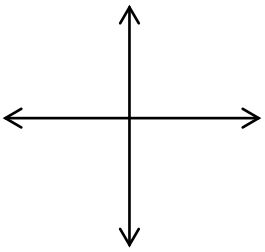
Angles on the Unit Circle Homework
Module 3, Unit 6, Lesson 2

Draw and label each angle in standard position.

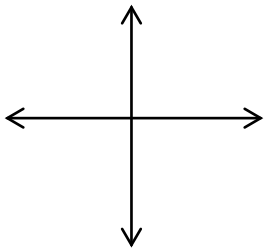
1. 150^{o}



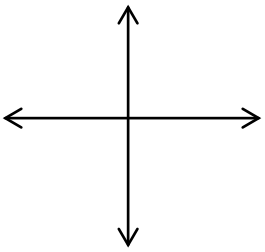
2. 240^{o}



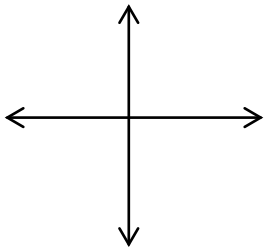
3. -90^{o}



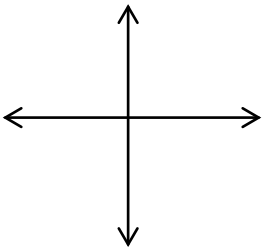
4. -315°



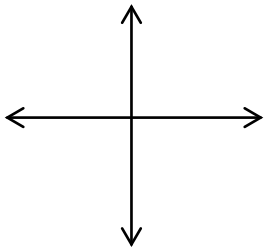
5. 270^{o}



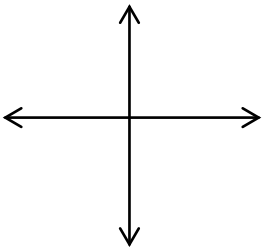
6. 210^{o}



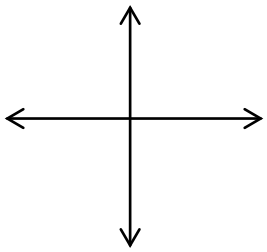
7. -120^{o}



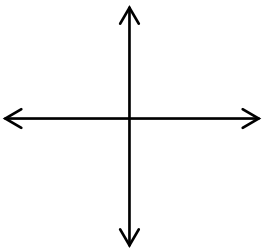
8. 300°



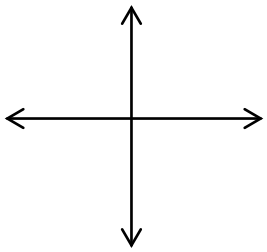
9. 630^{o}



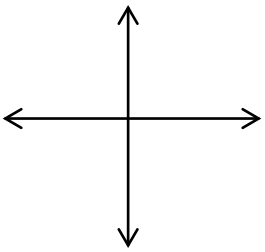
10. -405^{o}



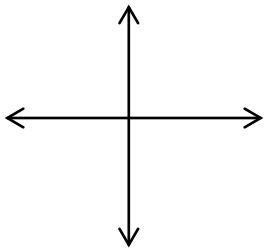
11. 660^{o}



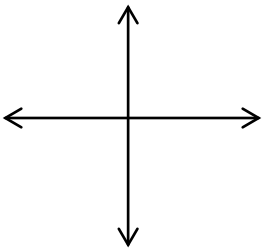
12. -135°



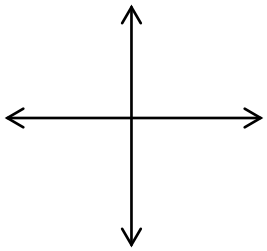
13. 900^{o}



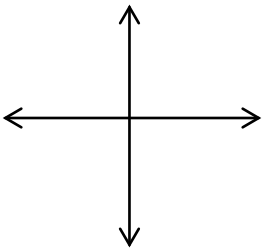
14. -240^{o}



15. 45^{o}



16. -225°



Without drawing, determine the quadrant where each angle is located.

17. 105^o 18. 318^o 19. -150^o 20. -300^o

21. -200^o 22. 210^o 23. 120^o 24. -68^o

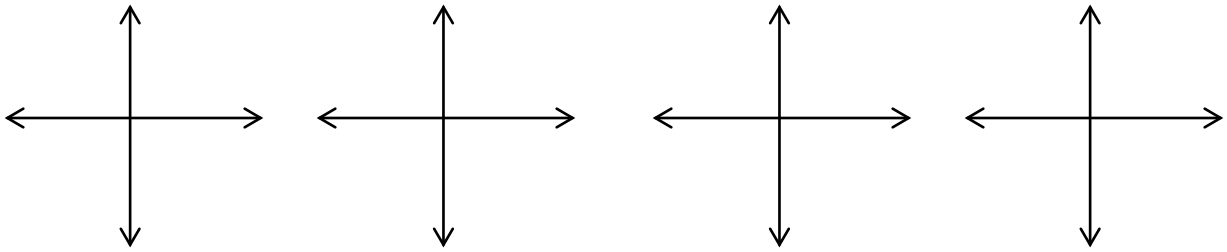
25. 235^o 26. -100^o 27. 585^o 28. -260^o

Find a positive angle less than 360° that is coterminal with the given angles. Show all necessary work.

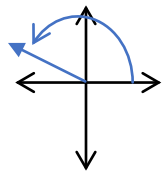
29. -210° 30. 750° 31. 600^o 32. -540^o

Find the reference angle, θ', for each of the following. Sketch the angle and the reference angle.

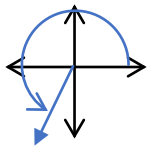
33. 120^o 34. -300^o 35. 585^o 36. -210°



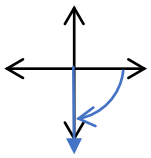
1. 150^o



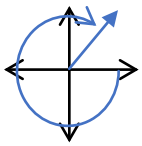
2. 240^o



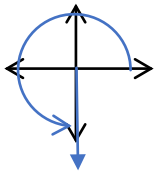
3. -90^o



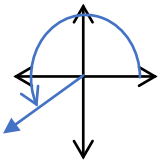
4. -315°



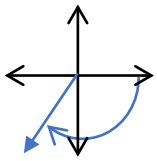
5. 270^o



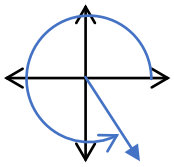
6. 210^o



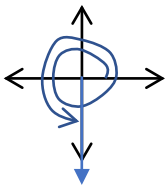
7. -120^o



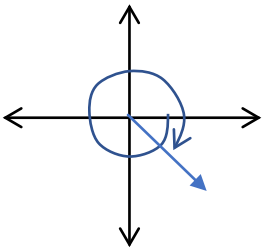
8. 300°



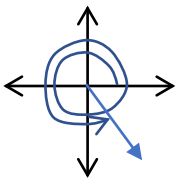
9. 630^o



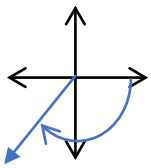
10. -405^o



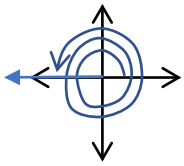
11. 660^o



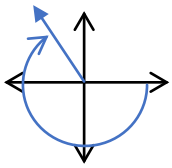
12. -135°



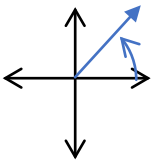
13. 900^o



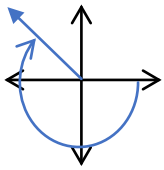
14. -240^o



15. 45^o



16. -225°



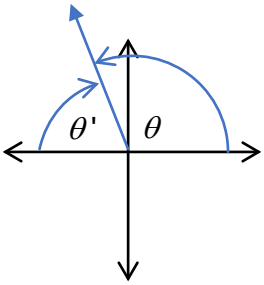
17. II
18. IV
19. III
20. I

21. II
22. III
23. II
24. IV

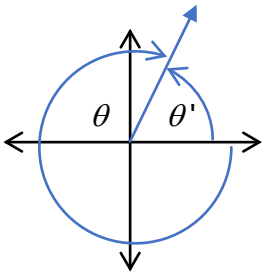
25. III
26. III
27. III
28. II

29. 150^o
30. 30^o
31. 240^o
32. 180^o

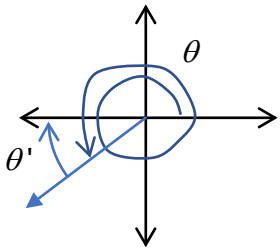
33. $\theta = 120^o$
$\theta' = 60^o$



34. $\theta = -300^o$
$\theta' = 60^o$



35. $\theta = 585^o$
$\theta' = 45^o$



36. $\theta = -210^\circ$
$\theta' = 30^o$