8-1 Angle and Angle Measure Worksheet

Draw the indicated angle. Make sure to include your direction and spirals if it goes around more than once.

1. $\theta = 310°$	2. $\theta = -125°$	3. $\theta = 510°$	4. $\theta = -700°$	5. $\theta = -1350°$
6. $\theta = \frac{5\pi}{4}$	7. $\theta = -\frac{\pi}{2}$	8. $\theta = \frac{25\pi}{6}$	9. $\theta = -\frac{10\pi}{3}$	10. $\theta = 7\pi$

Complete the chart below about converting angle measures. Show your WORK!

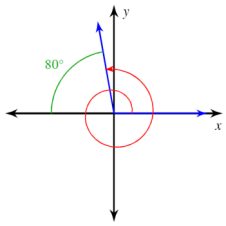
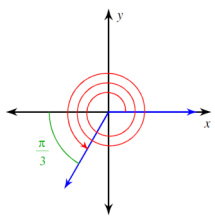
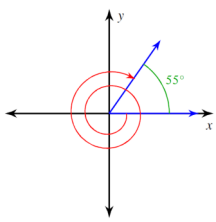
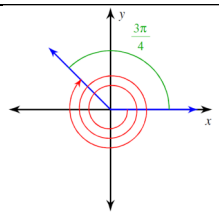
Degree Measure → Radian Measure	Radian Measure → Degree Measure
11. $\theta = 155°$ → _____	14. $\theta = \frac{7\pi}{6}$ → _____
12. $\theta = -330°$ → _____	15. $\theta = \frac{2\pi}{3}$ → _____
13. $\theta = 720°$ → _____	16. $\theta = -\frac{26\pi}{15}$ → _____

Find a positive and a negative coterminal angle for each given angle. Show work!

17. $114°$ → positive coterminal angle = _____ negative coterminal angle = _____

18. $-\frac{4\pi}{9}$ → positive coterminal angle = _____ negative coterminal angle = _____

Determine the measure of each angle. Keep units consistent. Must show work!

19. 	20. 	21. 	22. 

Determine the reference angle for each given angle θ. Show your work!

23. $\theta = 323°$ → reference angle: _____

24. $\theta = 242°$ → reference angle: _____

25. $\theta = 127°$ → reference angle: _____

26. $\theta = -135°$ → reference angle: _____

27. $\theta = 744°$ → reference angle: _____

28. $\theta = -566°$ → reference angle: _____