**HM3 - Radians and Degree Measure NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***For each angle, determine the quadrant in which the angles lies and find two coterminal angles (one positive and one negative).***

1. $\frac{π}{5}$ 2. $\frac{7π}{5}$ 3. $-\frac{π}{12}$ 4. $-\frac{11π}{9}$

5. $\frac{π}{12}$ 6. $\frac{2π}{3}$ 7. $-\frac{9π}{4}$ 8. $-\frac{2π}{15}$

***Sketch a picture and determine the Reference Angle for each (find coterminal angles if needed). Leave your answer in the form that was given (radians or degrees).***

9. $\frac{-11π}{4}$ 10. $-185°$ 11. $190°$ 12. $\frac{7π}{3}$

13.$\frac{11π}{6}$ 14. $\frac{32π}{9}$ 15. $-375°$ 16. $\frac{-23π}{6}$

***Express the angle in radian measure as a multiple of π. Do not use a calculator.***

17. $30°$ 18. $150°$ 19. $315°$ 20. $120°$

21. $-20°$ 22. $-240°$ 23. $-270°$ 24. $144°$

25. $420°$ 26. $-390°$ 27. $-215°$ 28. $-495°$

***Express the angle in degree measure. Do not use a calculator.***

29. $\frac{3π}{2}$ 30. $\frac{7π}{6}$ 31. $-\frac{7π}{12}$ 32. $-\frac{π}{9}$

33. $\frac{7π}{3}$ 34. $-\frac{11π}{30}$ 35. $\frac{11π}{6}$ 36. $\frac{34π}{15}$

37. $-\frac{π}{6}$ 38. $-\frac{31π}{18}$ 39. $\frac{5π}{9}$ 40. $\frac{4π}{3}$