

Name _____

Date _____

Advanced Algebra

Unit 10 Advanced Trig

Assignment #7 Radian Measure

Decide if the angles are co-terminal:

1) $\frac{\pi}{3}$ and $\frac{-5\pi}{3}$

2) $\frac{-11\pi}{6}$ and $\frac{13\pi}{6}$

3) $\frac{3\pi}{4}$ and $\frac{-13\pi}{4}$

4) $\frac{2\pi}{3}$ and $\frac{-5\pi}{6}$

Find the complement of the angle (remember $90 = \frac{\pi}{2}$)

5) $\frac{2\pi}{9}$

6) $\frac{5\pi}{12}$

7) $\frac{\pi}{6}$

8) $\frac{2\pi}{5}$

Find the supplement of the angle (remember $180 = \pi$)

9) $\frac{2\pi}{9}$

10) $\frac{4\pi}{5}$

11) $\frac{\pi}{3}$

12) $\frac{3\pi}{16}$

Find 1 positive and 1 negative angle that are co-terminal with the given radian angle. Your answers should be in radian.

13) $\frac{13\pi}{3}$

14) $\frac{17\pi}{4}$

15) $\frac{24\pi}{7}$

16) $\frac{26\pi}{3}$

Re-write the degree measure as radians:

17) 20°

18) 225°

19) 150°

20) 45°

21) -110°

22) 320°

23) 190°

Rewrite the radian measure as degrees:

24) $\frac{5\pi}{3}$

25) $-\frac{3\pi}{2}$

26) $\frac{\pi}{10}$

27) $\frac{\pi}{12}$

28) $\frac{7\pi}{15}$

29) $\frac{9\pi}{2}$