

Name \_\_\_\_\_  
Date \_\_\_\_\_

Advanced Algebra  
Unit 10 Advanced Trig  
Assignment #6

**Decide whether the angles are co-terminal:**

1) 30 and 390

2) 30 and -390

3) 280 and 640

4) 35 and -335

**Find the complement of the given angle:**

5) 30

6) 45

7) 52

8) 4

**Find the supplement of the given angle**

9) 100

10) 150

11) 24

12) 36

**Find two angles, one with positive measure, and the other with negative measure that are co-terminal with the given angle**

13) 50

14) 210

15) 420

16) 840

**Sketch each angle in Standard Position, then find the reference angle**

17) 300

18) 220

19) -510

20) -155

21) 345

**Without using a calculator decide whether the equation is true or false. Draw a picture with proper reference angles to help you decide.**

22)  $\sin 174 = \sin 6$

23)  $\cos 200 = \cos 20$

24)  $\tan 220 = \tan 40$

25)  $\cos 300 = \cos 60$