PreCalculus Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review: Unit 1 Test 2 Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Study your old homeworks & assessments! Test 2 covers ALL of unit 1. Unless otherwise noted, leave radians in radians and degrees in degrees. You will NOT be able to use notes on this test!**

#1-3, Use the diagram of  to find the missing sides and angles. Round angles to the nearest degree and side lengths to the nearest tenth.

**A**

**B**

**C**

**a**

**8b**

**215**

1. a =
2. 
3. 

#4-6, Use the diagram of  to find the missing sides and angles. Round angles to the nearest degree and side lengths to the nearest tenth.

**R**

**S**

**T**

**3**

**700**

**t**

1. t =
2. 
3. 

7. If  , find  . 8. If  , find  . 9. If  , find  .

10. Find the exact value of all six trig functions of an angle ϴ, whose terminal side passes through

(4, 9)

11. Find the exact value of all six trig functions if the terminal side of ϴ passes through (-5, 3).

12. Convert the following degree measurements to radians.

1. 45° b. 240° c. 18° d. 315°

13. Convert the following radians to degrees.

1.  b.  c.  d. 

14. Find one positive and one negative coterminal angle to 400°

15. Find one positive and one negative coterminal angle to -45°

16. Find one positive and one negative coterminal angle to 

17. Find one positive and one negative coterminal angle to 

18. Graph the following angles

a. 365° b. -90° c.  d. 

19. Find the reference angle of the following angle measures.

a. 365° b. -45° c.  d. 

20. Find the exact value of the trig function indicated. \*HINT: Draw a triangle!!

a.  b.  c.  d.  e.  f. 

21. If  and  ,  lies in quadrant \_\_\_.

22. If  and  ,  lies in quadrant \_\_\_.

23. If  and  ,  lies in quadrant \_\_\_.

24. If  and  ,  lies in quadrant \_\_\_

25. Write all six trig functions for the angle 