UNIT TEST

Fill in the blanks.

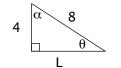
- 1. The reference angle for 160° is ______ .
- 2. The ratio hypotenuse over adjacent is called _______.
- 3. $1/\cot\theta$ is the same as ______ .
- 4. The quadrants where $\cos \theta$ is negative are ______ .
- 5. The length of the hypotenuse of an isosceles right triangle with a leg measurement of $5\sqrt{2}$ is ______ .
- 6. The terminal side of 430° lies in quadrant ______.

Follow the directions.

- 7. Given the angle -221°, name the quadrant where the terminal angle stops, and give the reference angle.
- 8. Prove: $-\sin(-\theta) \cdot \csc(90^{\circ} \theta) \cdot \cos(-\theta) = \sin \theta$

UNIT TEST I

Given the following triangles, answer the questions.





9. What is the length of side L?

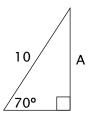
10. What is the measurement of angle θ ?

11. What is the length of side H?

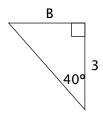
12. What is the measurement of angle A?

Follow the directions.

- 13. Change the following angle measure to a decimal number: 22° 50' 45".
- 14. Solve for side A.



15. Solve for side B.



Fill in the chart. Make a sketch showing both angles.

16.

17.

θ	reference angle	quadrant of ref. angle	sin θ	cos θ	tan θ
300°					
585°					

PRECALCULUS

18. A building casts a shadow 100 feet long. If the angle of elevation from the farthest point of the shadow to the top of the building is 26°, what is the height of the building?

24 PRECALCULUS