Pre-Calculus	Name
WS 4.1-4.3	
	Calculator OK!
For 1-4, convert to degree	s or radians. Round to the nearest hundredth where necessary.
) 140°	2) 82°

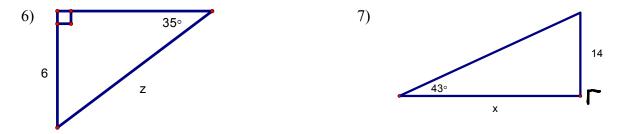
For #5, assume that θ is an acute angle in a right triangle satisfying the given conditions. Evaluate the remaining trigonometric functions.

4) 5 radians

5) $\sec \theta = \frac{17}{5}$ $\sin \theta = \underline{\qquad} \cos \theta = \underline{\qquad} \tan \theta = \underline{\qquad}$ $\csc \theta = \underline{\qquad} \cot \theta = \underline{\qquad}$ What does the angle measure (in degrees)? _____

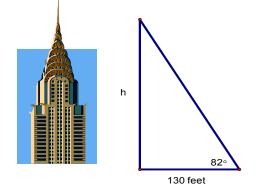
For 6-7, solve for the variable shown.

3) $\frac{8\pi}{9}$





8) The Chrysler Building in New York City was the tallest building in the world at the time it was built. It casts a shadow approximately 130 feet long on the street when the sun's rays form an 82° angle with the earth. How tall is the building?



NO CALCULATOR! Find the exact value of each trig function (NO DECIMAL ANSWERS).

9. sin 4π	10. cos 120°	11. $\tan \frac{-5\pi}{3}$
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12. sec – 210°	13. cos 420°	14. $\cot \frac{7\pi}{4}$
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15. $\cos \pi$	16. sec –120°	17. $\sin -\frac{5\pi}{6}$
		0

Find a positive and	negative a	angle coterminal	l with the	given angle.
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18. 420°	19. $\frac{3\pi}{2}$	$20. \frac{7\pi}{2}$
	4	6