Honors Math II Unit 9 midchapter review

Name	
Period	_Date

1.	Given: $\sin A =$	$\frac{12}{13}$ Find:	$\cos B = ?$	2.	Given: $\tan B = \frac{2}{3}$	Find:	$\sin A = ?$
			$\tan A = ?$				$\cot A = ?$
			$\sin B = ?$				$\cos B = ?$
Angl	le C is the right ar	ıgle		Ang	gle C is the right angle	е	

Use the given point on the terminal side of an angle θ in standard position to evaluate the six trigonometric functions of θ . And then state the angle rotated θ to reach the terminal side and the reference angle θ' .



Use the special patterns to solve for x and y. (no calculator)



16. An equilateral triangle has a side length of 8 inches. Find the length of the triangles altitude.

17. The perimeter of a square is 60 cm. Find the length of a diagonal.

Solve the following triangles.



22. 120°	23. –250°	24. $\frac{2\pi}{3}$
25. 5.67	26. $\frac{11\pi}{6}$	27. 45°

28. A hiker stands x feet from the base of a 24 foot tall tree. The angle of elevation to the top of the tree is 45°. How far is the hiker from the base of the tree?

29. A flagpole projects a show that is 26 feet long. The angle of elevation to the sun is 30°. What is the approximate height of the flagpole?

30. A hiker at the top of a 4000 foot mountain sees a farm at an angle of depression of 53°. What is the distance from the hiker to the farm?

