

Name: _____
Pre-Calculus Test #2 4th Six Weeks Review (QUIZ 19)

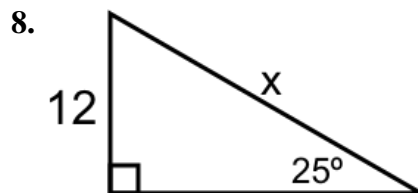
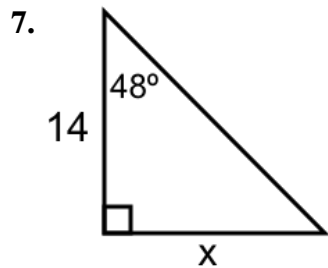
Date: _____ Period: _____
Ms. Hernandez

Trigonometry Test Review

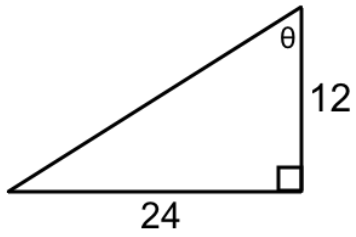
Part I: Multiple choice. Write the number of the correct choice on the line provided.

- _____ 1. In which quadrant does a -285° angle lie?
(1) I (2) II (3) III (4) IV
- _____ 2. Which angle is *not* coterminal with an angle that measures 300° ?
(1) -420° (2) -300° (3) -60° (4) 660°
- _____ 3. What is the reference angle for -512° ?
(1) -208° (2) -28° (3) 28° (4) 280°
- _____ 4. An angle of $\frac{3\pi}{4}$ radians lies in quadrant
(1) I (2) II (3) III (4) IV
- _____ 5. The value of $\tan 315^\circ$ is the same as the value of
(1) $\cos 0^\circ$ (2) $\sin 90^\circ$ (3) $\tan 135^\circ$ (4) $\sin 180^\circ$
- _____ 6. Express 330° in radian measure.
(1) $\frac{5\pi}{6}$ (2) $\frac{5\pi}{3}$ (3) $\frac{11\pi}{6}$ (4) $\frac{11\pi}{4}$

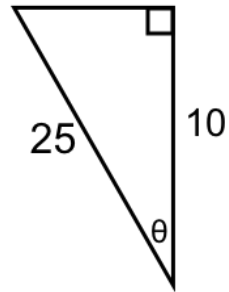
Part II: Basic Trigonometry. Find the value of x , the length of the side, or θ , the degree measure of the angle. Round answers to the nearest *hundredth*.



9.



10.



Part III: Coterminal Angles. For each angle in questions 11–13, find a coterminal angle that is between 0° and 360° .

11. 455°

12. -160°

13. 825°

Part IV: Unit Circle.

14. If $\sin\theta < 0$ and $\tan\theta > 0$, in which quadrant does θ lie?

15. In which quadrant does an angle of 260° lie? Is $\cos 260^\circ$ positive or negative?

Part V: Reference Angles.

For questions 16 and 17, find the reference angle of each given angle.

16. 145°

17. 305°

18. Express $\sin 145^\circ$ as a function of a positive acute angle.

Part VI: Special Angles. Fill in the values of the trigonometric functions for each angle.

19.

θ	0°	30°	45°	60°	90°	180°	270°
$\sin\theta$							
$\cos\theta$							
$\tan\theta$							

Part VII: Degrees and Radians.

20. Convert an angle of 210° into radians.

21. Convert an angle of $\frac{5\pi}{9}$ radians into degrees.