3.
$$\cos \frac{3\pi}{4} =$$
 4. $\sin 300^{\circ}$

- 5. $\sin 90^{\circ} = \tan \theta$ 6. $\cos 135^{\circ} = \sin \theta$
- 7. Change 120° into radians in terms of π .
- 8. Change $\frac{7\pi}{10}$ radians into degrees.

Suppose $\sin \theta = \frac{1}{3}$ and the terminal side of the angle lies in **quadrant II**. Find each value. (Hint: First draw your triangle in quadrant II !!!!)

9. $\cos\theta =$

10. $\tan \theta =$

11. $\csc \theta =$

12. $\sec \theta =$

13.
$$\cot \theta =$$

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Name_____

14. Find $\cot 52^{\circ}55'54'' =$

15. Change 2.345 radians to degrees, minutes, and seconds.

16. Find one positive angle and one negative angle that are conterminal to a 200° angle.

17. Change $52^{\circ}15'34''$ to **radians.** (Round to five decimal places)

18. Solve the triangle. Round the sides and angles to the nearest tenth. B=90°, a= 3 ft, b= 7ft. Find each. A = C =

c =

19. What is the maximum value that $\cos\theta$ can be? Why?

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20. Where do the trigonometry functions come from?

21. At what angles is tangent undefined? Why?

- 22. Find two, one positive and one negative, angles coterminal to $\frac{\pi}{8}$.
- 23. Find the point on the circle given the central angle in standard positon and the radius. a. $\theta = 30^{\circ}, r = 8$ b. $\theta = 300^{\circ}, r = 10$

c.
$$\theta = 405^{\circ}, r = 4$$
 d. $\theta = -120^{\circ}, r = 5$

e.
$$\theta = \frac{3\pi}{4}$$
, $r = 5$ f. $\theta = \frac{11\pi}{6}$, $r = 7$

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24. Find the reference angle for an angle of 192° .

25. Find the reference angle for an angle of 482° .

26. What is a radian?

 $27. \cos(2.345) =$

- 28. What is the maximum value that $\sin \theta$? Why?
- 29. How do you know when to use the unit circle, 30-60-90 degree triangle or the 45-45-90 degree triangle when solving trigonometric functions?

30. Change $\frac{7\pi}{5}$ radians into degrees, minutes, and seconds.