

## NO CALCULATOR

1.  $\cos 330^\circ$  \_\_\_\_\_

2.  $\sin 150^\circ$  \_\_\_\_\_

3.  $\tan 60^\circ$  \_\_\_\_\_

4.  $\cot 210^\circ$  \_\_\_\_\_

5.  $\sec 30^\circ$  \_\_\_\_\_

6.  $\csc 315^\circ$  \_\_\_\_\_

7.  $\tan 135^\circ$  \_\_\_\_\_

8.  $\cot 240^\circ$  \_\_\_\_\_

9.  $\sec 120^\circ$  \_\_\_\_\_

10.  $\csc 300^\circ$  \_\_\_\_\_

11.  $\tan 270^\circ$  \_\_\_\_\_

12.  $\tan 330^\circ$  \_\_\_\_\_

13.  $\cot 45^\circ$  \_\_\_\_\_

14.  $\sec 90^\circ$  \_\_\_\_\_

15.  $\sin 1440^\circ$  \_\_\_\_\_

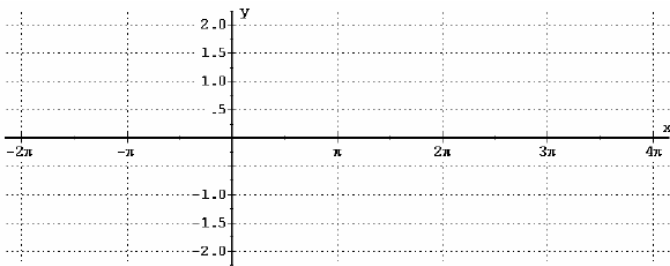
16.  $\cos 1260^\circ$  \_\_\_\_\_

17.  $\sec\left(\frac{5\pi}{4}\right)$  \_\_\_\_\_

18.  $\csc\left(\frac{5\pi}{6}\right)$  \_\_\_\_\_

19.  $\tan \pi$  \_\_\_\_\_

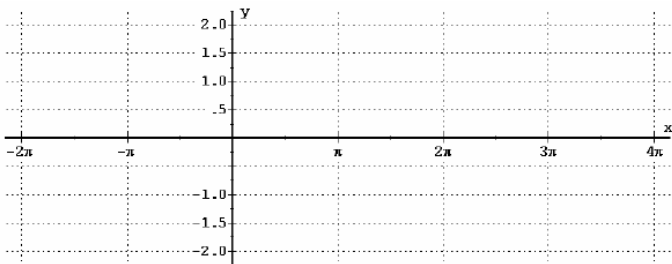
20.  $\cot\left(\frac{7\pi}{4}\right)$  \_\_\_\_\_

21. Graph  $y = \sin x$  over  $-2\pi \leq x \leq 2\pi$ 

Domain:

Range:

Does this graph have an inverse? Why or why not?  
 Darken a portion of the graph that is one-to-one and thus have an inverse.

Write the domain for  $y = \sin x$ 22) Graph  $y = \tan x$  over  $-2\pi \leq x \leq 2\pi$ 

Domain:

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Does this graph have an inverse? Why or why not?  
 Darken a portion of the graph that is one-to-one and thus have an inverse.

Write the domain for  $y = \tan x$

23. Find one positive and one negative angles that are coterminal with $-337^\circ$	24. Find one positive and one negative angles that are coterminal with $\frac{7\pi}{3}$
25. Convert to degrees: $\frac{9\pi}{5}$	26. Convert to radians: $-335^\circ$
27. A sector of a circle has arc length 12 cm and central angle of 1.8 radians. Find the radius and area.	28. A sector of a circle has radius 12 cm and central angle of $325^\circ$ . Find the arc length and area.
29. $\cos \theta = \frac{-12}{13}; \frac{\pi}{2} \leq x < \pi$ . Find $\cot \theta$	30. The point $(-6, -8)$ is on the terminal side of an angle. Find the 6 trig functions.
31. Express in terms of a reference angle: $\sin 280^\circ$	32. Express in terms of a reference angle: $\tan 220^\circ$
33. Express in terms of a reference angle: $\sec \frac{19\pi}{4}$	34. Express in terms of a reference angle: $\cot \frac{53\pi}{6}$
35. $\cot \theta$ and $\cos \theta$ are both negative in what quadrant?	36. $\tan \theta$ and $\sin \theta$ are both negative in what quadrant?