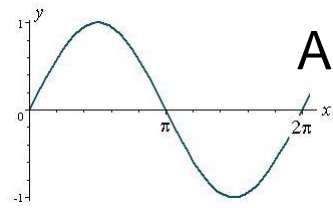


Name: _____

Precalculus

Review through 5.4

Trig Functions



Convert these degree measures into radian measures.

1) 200

2) 320

Convert these radian measures into degree measures.

3) $\frac{3\pi}{5}$

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

5) Convert 50 RPM's into rad/sec

6) Convert 30π rad/sec into RPM's

7) Find the arc length of a circle if its central angle is 40 degrees and the radius is 12 feet.

8) Find the linear velocity of the outer edge of a 26-inch diameter bicycle tire if it is spinning at a rate of 42 RPM's. Write your answer in feet/sec.

9) If the Llano River causes a 12-foot water wheel to turn at 4 RPM's, what is the speed of the water?
Write your answer in ft/sec.

10) A point on the terminal side of an angle θ is given. Find the exact values of all six trig functions.
in ratio form.

(2, - 6)

a) $\sin \theta =$

b) $\cos \theta =$

c) $\tan \theta =$

d) $\cot \theta =$

e) $\sec \theta =$

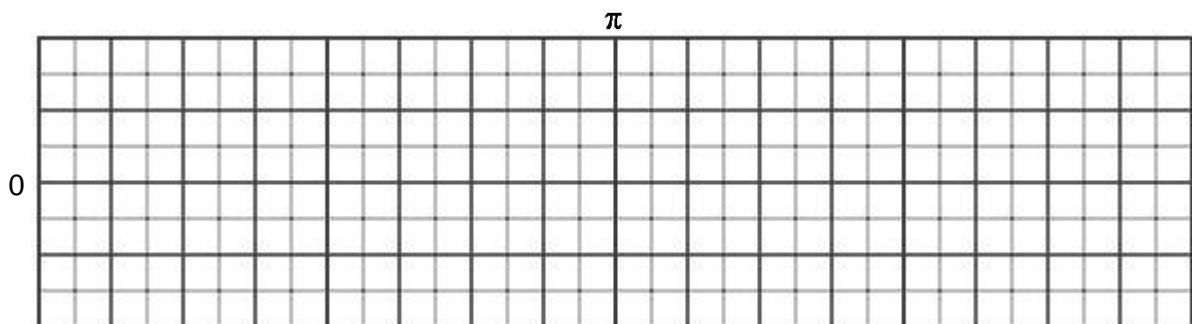
f) $\csc \theta =$

Write in standard form, find the amplitude, period, phase shift, and vertical displacement, then graph across the entire coordinate system.

16) $y = \sin(2x + \frac{\pi}{4})$

Standard form: _____

A = _____ Period = _____ PS = _____ VertDisp = _____



Fill in the unit circle

