

Bellwork Monday, June 2, 2014

1. Write the equation of the inverse relation.

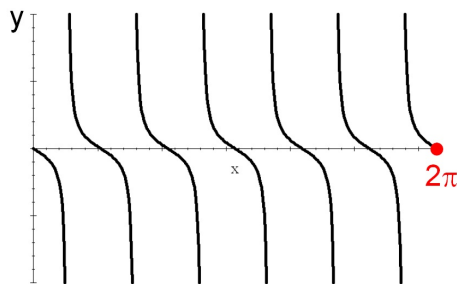
$$x = \sqrt[3]{\frac{2y+5}{11}} - 8$$

$$11 \left( \frac{x+8}{2} \right)^3 - 5$$

2. Rewrite using rational exponents

$$5\sqrt[3]{m^3} \quad 5m^{\frac{3}{3}}$$

5. Write the equation of this function:



$$\text{period} = \frac{2\pi}{6} = \pi/3$$

$$-\tan b x = -\tan 3x$$

$$\frac{\pi}{\text{period}} = \frac{\pi}{\pi/3} = 3$$

3. Find both a positive and negative coterminal angle. Give your answer in radians.

$$\frac{27\pi}{8} + 16\frac{\pi}{8} \quad \text{Pos: } \frac{11\pi}{8}, \frac{43\pi}{8}, \dots$$

$$\text{Neg: } -\frac{5\pi}{8}$$

4. Convert to radian measure. Give your answer as a simplified fraction.

$$165^\circ \cdot \frac{\pi}{180^\circ} = \frac{33\pi}{36} = \frac{11\pi}{12}$$

6. Given  $\sec \theta = \frac{25}{24}$

Find the other 5 trig ratios.

$$\sin \theta = \frac{7}{25}$$

$$\cos \theta = \frac{24}{25}$$

$$\tan \theta = \frac{7}{24}$$

$$\cot \theta = \frac{24}{7}$$

$$\csc \theta = \frac{25}{7}$$

