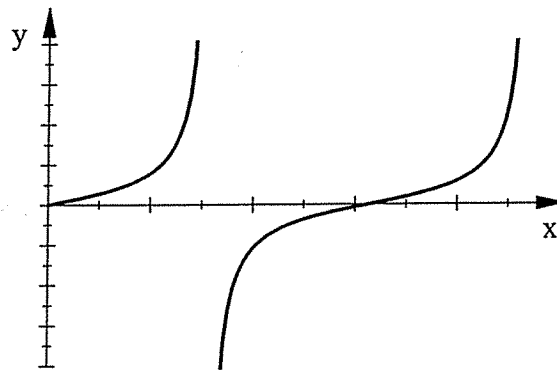
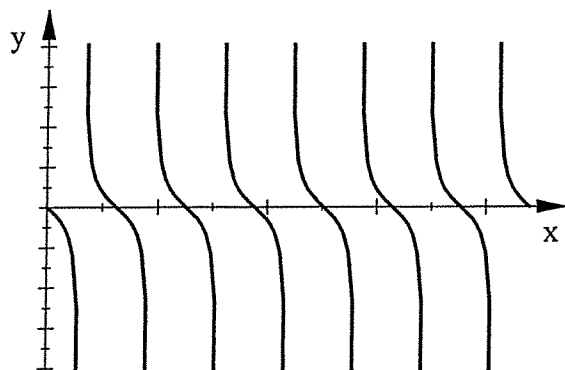


Algebra 2 Bellwork Thursday, March 26, 2015

Find the period and write the equation of each Tangent Function.

1. The window shown is 0 to 2π

2. The window shown is 0 to 5π



Find the location of three x-intercepts and three Vertical Asymptotes.

3. $y = -7\tan 6x$

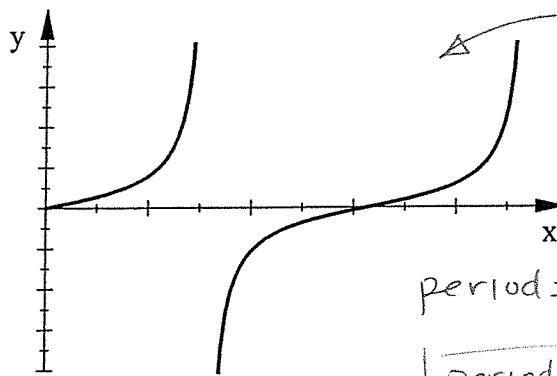
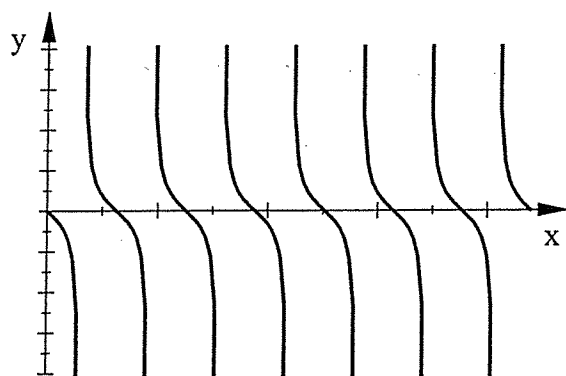
4. $y = 3\tan \frac{7x}{4}$

Algebra 2 Bellwork Thursday, March 26, 2015

Find the period and write the equation of each Tangent Function.

1. The window shown is 0 to 2π

2. The window shown is 0 to 5π



Answers

period = $\frac{2\pi}{7}$

$b = \frac{\pi}{2\pi/7} = \pi \cdot \frac{7}{2\pi} = \frac{7}{2}$

$y = -\tan \frac{7x}{2}$

period = $\frac{5\pi}{\frac{3}{2}} = 5\pi \cdot \frac{2}{3}$

period = $\frac{10\pi}{3}$

$b = \frac{\pi}{\frac{10\pi}{3}} = \pi \cdot \frac{3}{10\pi} = \frac{3}{10}$

$y = \tan \frac{3x}{10}$

Find the location of three x-intercepts and three Vertical Asymptotes.

3. $y = -7\tan 6x$ period = $\frac{\pi}{6}$

4. $y = 3\tan \frac{7x}{4}$ period = $\frac{\pi}{\frac{7}{4}} = \frac{4\pi}{7}$

