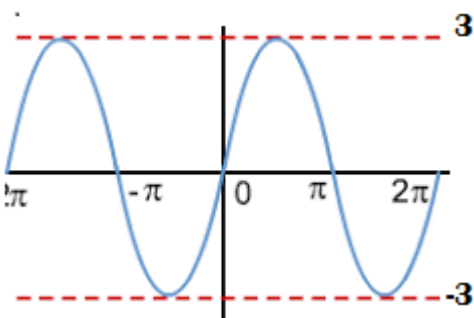
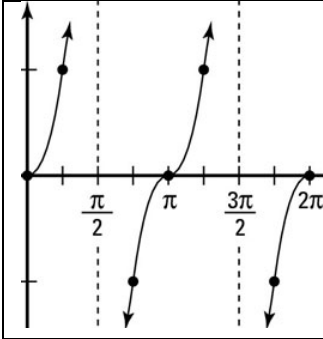


Trivia Trig Extra Review

<p>1. Given the $\sin \theta = \frac{4}{5}$, find the $\sec \theta$.</p> <p>In Japan, letting a sumo wrestler make your baby cry is considered _____.</p> <p>A. horrible parenting - $\sec \theta = \frac{5}{4}$</p> <p>B. good luck - $\sec \theta = \frac{5}{3}$</p> <p>C. bad luck - $\sec \theta = \frac{4}{3}$</p> <p>D. a way to make your child smarter - $\sec \theta = \frac{4}{5}$</p>	<p>2. The graph of f is given. How are f and $g(x) = 3\cos(2x)$ different?</p>  <p>Sea otters _____ when they sleep so they don't drift apart.</p> <p>A. hold hands - The period of $g(x)$ is half the period of $f(x)$</p> <p>B. lock feet – the period of $f(x)$ is half the period of $g(x)$</p> <p>C. kick – the amplitude of $g(x)$ is half the amplitude of $f(x)$</p> <p>D. lock tails - the amplitude of $g(x)$ is twice the amplitude of $f(x)$</p>
<p>3. If $\cot \theta = \tan 35^\circ$, what is θ?</p> <p>Between 1900 and 1920, _____ was an Olympic event.</p> <p>A 145° - chariot racing</p> <p>B 45° - jousting</p> <p>C 35° - pig-back racing</p> <p>D 55° - tug of war</p>	<p>4. Mickey Mouse is observing the ascent of a steel beam being lifted by a crane from a position about 185 feet away. What function models the height h in feet of the beam as a function of the angle of inclination θ from Mickey Mouse's position to the steel beam?</p> <p>A baby can cost new parents _____ hours of sleep in the first year.</p> <p>A $h = \theta \tan(185) - 1200$</p> <p>B $h = 185 \tan \theta - 750$</p> <p>C $h = 185 \sin \theta - 525$</p> <p>D $h = \theta \cos(185) - 1000$</p>
<p>5. Today, high tide measured 10 ft and low tide measured 4ft. What is the amplitude?</p> <p>Google was originally named _____.</p> <p>A 10 – spot B 6 – imagine C 3 – backrub</p> <p>D 4 - handshake</p>	<p>6. What is the equation of the midline of the graph of $y = -\sin\left(\frac{x}{6}\right) + 4$?</p> <p>Winston Churchill's mother was born in _____.</p> <p>A $y = 4$ - Brooklyn</p> <p>B $y = -1$ - London</p> <p>C $x = 4$ - Paris</p> <p>D $x = -1$ – Chicago</p>

<p>7. Which statement about the graph of $y = \tan x$ is true? _____ is the only non-human to testify before Congress.</p> <p>A The function has zeros whenever $\csc x = 0$. – R2D2</p> <p>B The function has horizontal asymptotes whenever $\cos x = 0$. - Lassie</p> <p>C The period is π. - Elmo</p> <p>D The function is decreasing everywhere in its domain. – Mr. Ed</p>	<p>8. A car is on a Ferris wheel with a radius of 10 feet. To the nearest foot, how far does the car travel over an angle of $\frac{2\pi}{3}$ radians?</p> <p>Before Stephen Hillenburg created _____, he taught marine biology.</p> <p>A 17 - Ariel</p> <p>B 132 - Jaws</p> <p>C 10 - Dory</p> <p>D 21 – SpongeBob SquarePants</p>
<p>9. What equation is represented by the graph?</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px; border: 1px solid black; padding: 5px;"> <p>There are roughly _____ ingredients in the McRib.</p> </div> </div> <p>A $y = \frac{1}{4} \cot x - 15$</p> <p>B $y = \frac{1}{4} \tan x - 70$</p> <p>C $y = \tan \frac{1}{4} x - 65$</p> <p>D $y = \cot \frac{1}{4} x - 20$</p>	<p>10. What is the phase shift of the graph of $y = 4 \cos\left(x - \frac{3\pi}{4}\right) - 1$?</p> <p>Alaska is so big you could fit _____ New Jerseys in it.</p> <p>A $\frac{3\pi}{4}$ units right - 75</p> <p>B 1 units left - 30</p> <p>C $\frac{3\pi}{4}$ units left - 90</p> <p>D 4 units right - 55</p>

Evaluate the following trig functions. Sketch a picture and rationalize the denominator.

1. $\sin \frac{5\pi}{3}$	2. $\cos 180^\circ$	3. $\tan \frac{3\pi}{4}$	4. $\sec(-120^\circ)$
5. $\csc 0$	6. $\csc \frac{5\pi}{6}$	7. $\tan 2\pi$	8. $\cos(-90^\circ)$

