

Pre-Calculus Warm-up

Week 1

August 3, 2016

1. $12x + 7(x - 10) = 9(x - 8) - 5$
2. $2x + 6(x-10) = 5x + 4(x-2)$
3. $5\frac{4}{5} + 4\frac{2}{7}$
4. $5\frac{4}{5} \div \frac{2}{47}$
5. **Factor**, a. $x^2 + 21x + 20$, b. $10x^2 - 40$, c. $5x^2 - 50$

Week 2

August 9, 2016

1. $\cos X = 3/7$
 - a. Write all 6 Trig functions
2. The angle of elevation of a ladder is 48 degrees. The Ladder is 15 ft long. How high is the placement of the Top of the ladder against a building?

August 11, 2016

1. Find $\csc \theta$, if $\tan \theta = \frac{5}{7}$
2. Write out your own trig word problem and solve it.
Any situation that you can use trig to find the missing length.
3. Write out the unit circle 3 times by hand.

Week 3

August 15, 2016

1. $5\cos\frac{\pi}{3} + 4\sin\frac{\pi}{6}$
2. $2\tan\frac{\pi}{3} + 4\cos\frac{\pi}{6}$
3. $-4\cos\frac{2\pi}{3} + 8\tan\frac{11\pi}{6}$
4. $5(x-8)=2(x+4)$

August 17, 2016

1. Find $\csc \theta$, if $\tan \theta = \frac{8}{9}$
2. $-5\cos\frac{5\pi}{6} + 8\tan\frac{2\pi}{3}$
3. $12x^2 + 3x + 50 = 10$

Week 4

August 26, 2016

1. Graph $y = -4\sin(x) + 9$
2. Draw the Radian measures only on the unit circle.
3. $-4\tan\frac{\pi}{3} + 10\cos\frac{\pi}{6}$

Week 5

September 1, 2016

1. Graph $y = -9\cos(4x - \pi) + 5$
2. Graph $y = 10\sin(\frac{x}{5} + \pi) - 4$
3. Find $\sec \theta$, if $\tan \theta = \frac{5}{9}$

Week 7

September 12, 2016

1. Graph, $y = 5 + 2\cos(3x - \pi)$
2. Find all 6 trig functions if $\csc x = 10$

3. Given Information from the boat problem.
Low tide = 8, Average = 12, Period = 6hrs and 30 mins.
sketch the graph and write the equation.

September 13, 2016

1. $A = 45$, $B = 32$, $b = 10$, find a
2. solve for x ,
 - a. $\sin x = -.5$ (Exact Value)
 - b. $\sin x = .5$ (exact value)
 - c. $\cos x = -.5$ (exact value)
 - d. $\cos x = .5$ (exact value)
3. Solve for x ,
 - a. $\sin 2x = -.5$
 - b. $\sin 2x = .5$

Week 8

September 27, 2016

All possible solutions

1. $\sin x = -.5$
2. $\cos x = .5$
3. $\tan x = 1$
4. $\sin 2x = -.5$
5. $\cos 2x = .5$
6. $\tan 2x = 1$

Week 10

October 11, 2016

1. $12\cos\frac{\pi}{3} + 6\sin\frac{\pi}{6}$
2. Graph $y = -4\cos(5x) + 10$
3. $-8\cos\frac{2\pi}{3} + 10\tan\frac{11\pi}{6}$
4. $5(x-8)=10(x+4)$

October 13, 2016

Solve the triangle

1. $m\angle A = 68$, $a = 50$, $b = 40$,
2. Find all 6 trig functions if $\sec x = 5$

Week 13

Solve the triangle and find the area

1. $c = 88$, $a = 60$, $b = 50$,
2. Solve for x . $\sin 2x = .5$

Week 16

November 28, 2016

1. Find $\csc \theta$, if $\tan \theta = \frac{5}{9}$
2. Write out the unit circle 3 times by hand (Everything).
3. $4(x + 12) = 5(x - 8)$
4. Solve the triangle (Round to 4 decimals)
 $m\angle A = 68$, $a = 60$, $b = 50$,
5. Solve: $12\cos\frac{\pi}{3} + 6\sin\frac{\pi}{6}$
6. Graph $y = -4\cos(5x) + 10$