

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. $12x^2 + 3x + 50 = 10$