

Murrieta Mesa High School
AP Calculus AB
2017-2018 Summer Assignment

Please check out a calculus book and a graphing calculator (if you don't already have your own) from our school library. In order to check out a calculator, you'll need to fill out the graphing calculator contract located at the end of this assignment. You can also pick one up from Mr. LeRossignol in room 371. Before we return in August, be sure you can do the problems listed below. **This assignment will not be collected but you are responsible for knowing the material.** It is recommended that you do this work closer to the end of summer break so that the material is fresh in your mind when you return. Note: the answers to the odds are in the back of the book.

Appendix A: Graphing Using Calculators #1, 5, 8, 9, 17, 19, 20, 25

Appendix B: Trigonometry Review #1-31 odd, 45, 46

Appendix C: Solving Polynomial Equations #1-21 odd (skip #7)

Section 0.1 p. 12 #1, 3, 5, 7, 13-16, 23-25, 29, 35

Section 0.2 p. 24 #5-37 odd (skip 25), 45, 51, 53, 58, 59, 67

Section 0.3 p. 35 #11, 15, 16, 29, 31, 35

Section 0.4 p. 48 #1-19odd

Section 0.5 p. 61 #1, 2, 5, 6, 9-29odd, 35-38

Read section 1.1 and then watch this short 9 minute video clip discussing limits in order to try out some chapter 1 material:

<https://www.youtube.com/watch?v=UkjgJQaGx98>

1.1 p. 77 # 1-9odd

Because I know that you are craving more calculus fun over the summer, please watch the 1.1, 1.2, 1.3, and 1.4 tutorials at the following site: <http://www.calculus-help.com/tutorials/> (If they don't work, try a different internet browser.) After watching these videos, you will begin our first chapter of material in August being a few steps ahead of somebody who doesn't watch the tutorials. Translation: watch them☺. The concepts in the exercises listed above in the Appendices, Chapter 0 and Section 1.1 will also give us a good basis to begin our lectures in August.

Remind101: I've started a temporary AP Calc AB Summer Remind class I'd like all students to join ASAP. I will be sending tips and reminders out over the summer and you should not miss them. See next page for directions.

I am looking forward to a great year and hope you are too. But first, have a great summer!

Mr. LeRossignol (M371)

Calculator Contract on last page → you only need this if you don't have your own graphing calculator already.



Sign up for important updates from Mr. LeRossignol.

Get information for Murrieta Mesa High School right on your phone—not on handouts.

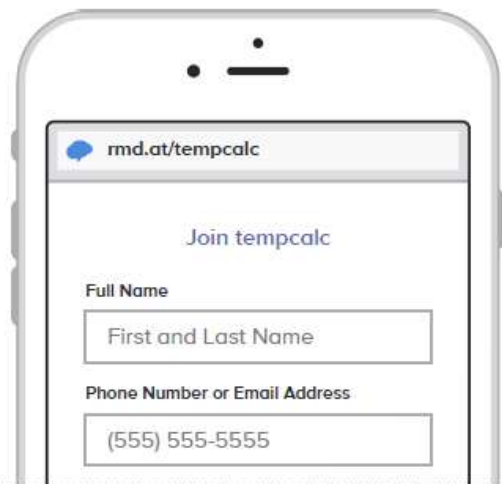
Pick a way to receive messages for **tempcalc**:

A If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

rmd.at/tempcalc

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



B If you don't have a smartphone, get text notifications.

Text the message @tempcalc to the number 81010.

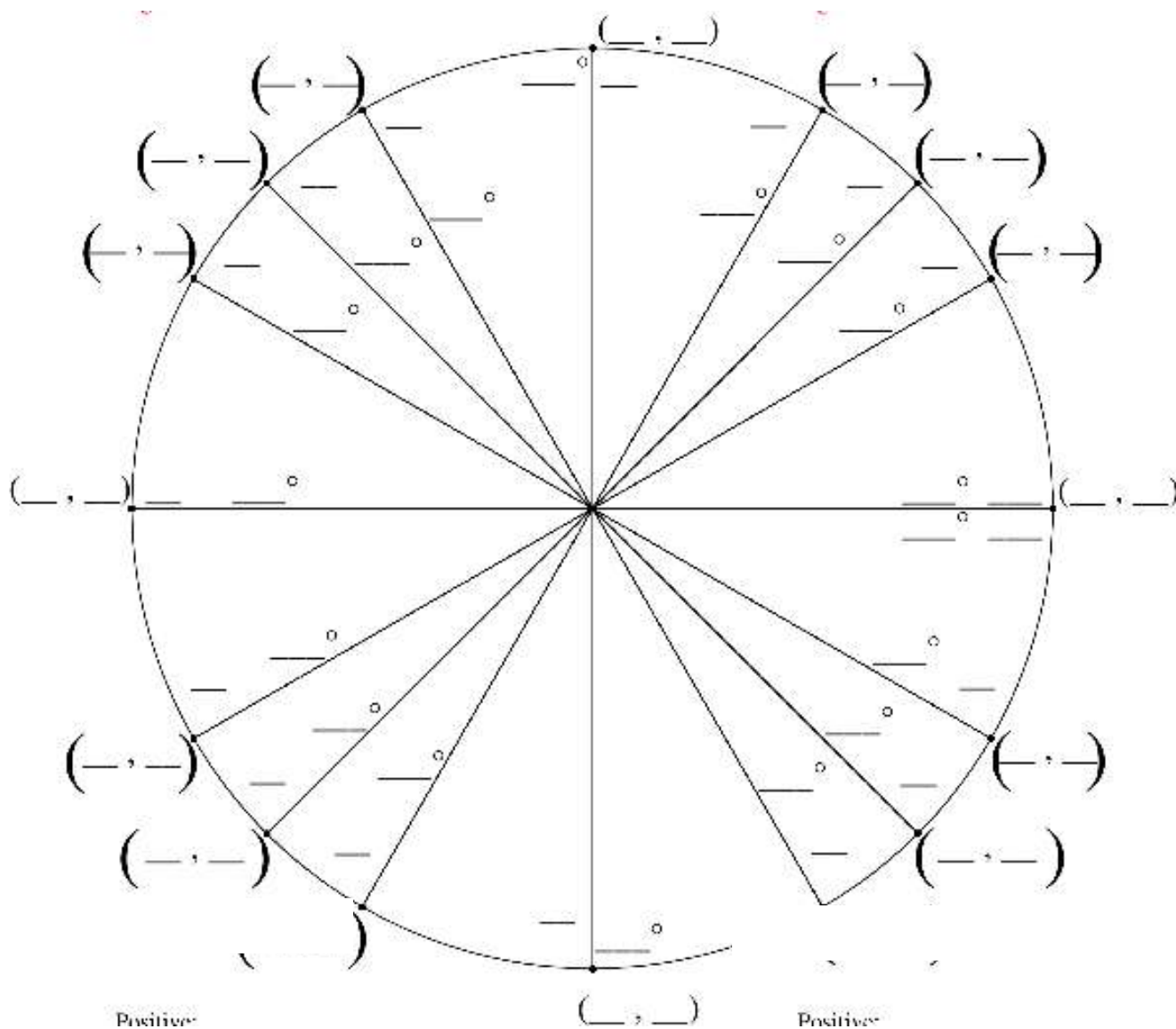
If you're having trouble with 81010, try texting @tempcalc to (951) 795-4755.

** Standard text message rates apply.*



Don't have a mobile phone? Go to rmd.at/tempcalc on a desktop computer to sign up for email notifications.

As part of your review, fill in the unit circle completely. Include the (x, y) coordinates and angles in radians and degrees. Try to do so without looking at any resources. Then check your work and make sure it's perfect. You can print a nicer blank one as well as a completed one by going to this link: <http://www.embeddedmath.com/downloads/index.php?item=unitcircle.php>



MMHS AP CALCULUS CALCULATOR CONTRACT

You will be issued a TI-83 (plus) graphing calculator that will be with you until the end of school in June. You are to bring it with you to class every day. You are totally responsible for the maintenance, use, and care of the calculator (including replacing batteries). You are expected to bring it to class every day. The calculator **replacement cost is \$100.00**. If you **lose or damage** the calculator or its parts, you will be responsible for paying the full replacement cost of \$100.00. By signing below, you fully understand the terms stated above and agree to abide by them.

Yes, I agree to check out a TI-83 (plus) graphing calculator from Murrieta Mesa High School. I agree to all of the above conditions.

Fill out lines 1 and 2 below and then bring this form to the library to get your calculator. At that time, you can record the calculator's barcode on line 3 as well as the date on line 4. The librarian will collect this form from you. You should write down the barcode somewhere safe just in case.

1. **Print Student Name** _____ **ID#** _____

2. **Student Signature** _____

3. **Calculator #** _____ (**write this down somewhere safe**)

4. **Date checked out** _____