

# GEOMETRY HONORS SUMMER REVIEW

## Welcome to Honors Geometry at Morton High School!

Dear Parents and Students,

Mathematics is a discipline that constantly builds on previous knowledge. Students entering Honors Geometry are expected to recall and apply the material that they learned in Algebra I from day one. We begin the year with brand new Geometry content and do not reteach concepts or begin with a “review chapter.” When you return to school in the fall, **there will be a test** over major Algebra 1 concepts on the second full day of class to help determine your placement and readiness for Honors Geometry. **Your performance on this test will be a significant factor in determining if you maintain your placement in honors.** To help you prepare for this test and for Honors Geometry in general, the high school mathematics department has compiled a list of problems that represent some of the most frequently used Algebra I concepts. Students are expected to complete the entire review over the summer and to begin the semester ready to ask questions about problems they did not understand. We recommend doing 1/3 of the problems from each section/topic each month. This will help keep the material fresh and identify areas that need improvement.

To access the summer review on Delta Math, join the Geometry Honors Summer Review Google Classroom using classroom code **i7ckc4**. Information on how to access the summer review on Delta Math can be found there.

**Class time will be provided on Wednesday, August 14<sup>th</sup> for questions, as the Geometry Honors Prerequisite Content Test is scheduled for Thursday, August 15<sup>th</sup>.** Teachers will help clarify directions when necessary, but will not answer questions such as “Am I doing this right?” or “Can you give me a hint?” The purpose of this test is to determine what *you* know, not what we know. Honors mathematics classes at Morton High School do not permit extra time on quizzes or tests, and this test is no exception. Students who are thoroughly prepared should have no problem completing the test within 45 minutes.

If you should happen to lose this packet, you can find it posted on the Morton High School website at <https://mhs.morton709.org/academics/math>. You will find a listing of all of our classes. Please select Geometry Honors Summer Review.

If you have any questions, contact Mrs. Durand at [rosie.durand@mcusd709.org](mailto:rosie.durand@mcusd709.org).

Have a wonderful summer!  
The Mathematics Department  
Morton High School

**Note: For those students who will be purchasing a graphing calculator:  
Please read the attached letter regarding graphing calculator requirements for MHS mathematics courses. You may send your student to school with the calculator’s packaging intact to for the math teacher to verify the correct calculator was purchased. CAS versions of the TI-Nspire are NOT allowed for students enrolled in Geometry.**

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## **FOR STUDENTS NEEDING TO PURCHASE A CALCULATOR:** **MORTON HIGH SCHOOL Required Calculator: TI-Nspire CX**

At Morton High School, all students use graphing calculators extensively in their math classes, whether they are in Algebra I through AP Calculus. This requirement has existed for a couple of years now; students are making great strides in mathematical understanding and performance as we continue to implement the use of the TI-Nspire CX. It is of critical importance that students obtain a calculator from the approved list because MHS math teachers have demonstration software for these specific devices, and it reduces the amount of class time spent on teaching students how to use the calculator.

In past years, Texas Instruments has offered schools a special opportunity to collect proof of purchase cards from students to be used towards a free TI-Nspire Navigator system or other TI-Nspire products. This system would allow us to wirelessly network graphing calculators to the teacher's computer, giving us the ability to let students demonstrate what they are doing to the class, receive document files from their teacher on their Nspire, and even use their calculator as a way to answer questions the teacher has posed to the class.

If you will be purchasing a new TI-Nspire CX (the latest version of the Nspire, which has a color screen) between now and the start of the 2019-20 school year, would you please return the entire "compare models" card that comes with the calculator to your child's math teacher? It will help us to obtain the Navigator system at no cost to the district. There is a picture of this card included on the next page. You must return the entire card, not just the "TI Points." **Do NOT purchase a calculator with CAS as part of its name.**

*If your child will be using a hand me down TI-Nspire from an older sibling, such as the greyscale model, we will no longer be able to install the latest operating system nor will we be able to use this calculator with the Navigator system. It does, however, have most all of the functionality of the CX and can still be used with much success.*

**DO NOT PURCHASE THE TI-NSPIRE CAS OR TI-NSPIRE CX-CAS.** Although the CAS is allowed on the SAT, these calculators are not allowed on the ACT and thus not allowed for students enrolled in MHS courses other than AP Calculus.

Thanks for helping us make sure your child receives the best possible math education with the latest tools available.

If the purchase of a graphing calculator will place an undue financial burden on your family, please contact your counselor or your math teacher.

**Be sure to save the entire card with the TI Technology points and turn it in to any math teacher! With enough collected, the department will be able to earn software for use with your students!**

# GEOMETRY HONORS SUMMER REVIEW

## The technology students need. The value you want.

Get TI-Nspire™ CX handhelds for math and science learning without impacting the school budget.

Many schools and districts have adopted a student-purchase program to help bring handheld technology into their math and science classrooms.

They have made this shift to help ease the pressure of decreasing budgets while offering competitive, technology-rich classrooms. Providing the best tools for student success is a top priority for every educator.

### Research<sup>†</sup> findings

When students own a handheld for use in class and at home, they are able to develop a deeper understanding of concepts. Research also shows improvements in scores on national, state and school-level tests.

<sup>†</sup>Learn more at [education.ti.com/research](http://education.ti.com/research).

### Longevity of use

A handheld purchase offers years of use – from middle grades through college – in a wide range of subjects, including:

Middle Grades Math	Geometry	Statistics	Biology
Pre-Algebra	Precalculus	Calculus	Chemistry
Algebra 1 & 2	Trigonometry	Physics	

### Long-term support

Curricular content, professional development and training, free technical support, software updates and parent communications are a few of the many educator support resources that are a staple of TI educational technology.



TI-Nspire™ CX handheld



### Handheld/software bundle

Each TI-Nspire CX and TI-Nspire™ CX CAS handheld purchased at a retail or retail online store comes together with TI-Nspire™ Student Software (PC or Mac®) for home use. Students can learn with the handheld in class and the software on a desktop or laptop computer at home or college. Handheld and software functionality are virtually identical.

### Exam acceptance

The TI-Nspire™ CX handheld and the TI-Nspire™ CX CAS handheld™ are permitted on a growing number of state math and science tests and college entrance exams that include:

- » SAT\*
- » ACT®
- » PSAT/NMSQT®
- » AP\*
- » IB®
- » Praxis™

\*\*The TI-Nspire CX CAS handheld is not permitted on the ACT or IB exams.

### Free test prep and more with student purchase

Students who purchase a TI-Nspire CX or TI-Nspire CX CAS handheld can download free SAT\* and ACT® practice questions from The Princeton Review™ for review on their handheld.

### Enhanced graphing and computer features for the TI-Nspire CX handheld

- » Bright, backlit, full-color screen
- » Touchpad enables easy navigation through screens and menus
- » Thin, lightweight design
- » Ability to upload and view photos and images
- » Multiple representations on a single screen
- » Ability to save files

» Claimants must send in the bottom half of the back of the retail package card for each of the 60 packages Tech Rewards Points (TRP) labels, as in this example:

COMPARE MODELS	TI-84 Plus	TI-84 Plus Silver Edition	TI-Nspire™ with Touchpad	TI-Nspire™ CX	TI-89 Titanium
Display Resolution	96 x 64	96 x 64	320 x 240	320 x 240	160 x 100
Available Memory (ROM / RAM)	480 KB / 24 KB	1.5 MB / 24 KB	15 MB	100 MB	2.7 MB / 188 KB
Rechargeable Battery			Optional	Included	
Removable Faceplates Available					
Computer Algebra System (CAS)					
Engineering Applications					
Interchangeable TI-84 Plus Keypad Available					
USB Cable Included					
Software Included					
Import Images™					
Save your work					
Color, Backlit Display					

\*SAT and AP are trademarks of the College Board, and ACT is a trademark of ACT, Inc., neither of which were involved in the production of, nor do they endorse this product. For more information on college entrance exams, visit: [www.sat.org](http://www.sat.org) and [www.act.org](http://www.act.org).

**TI Technology**

**50**

**POINTS**

Includes: calculator, side case, USB cable, 1 TI-Nspire Rechargeable Battery and 1 well adapter.

TI-Nspire supports the following image types: .jpg, .jpeg, .bmp, .png.

1-year limited warranty. Made in China.

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QUESTIONS? Education @ email support or 1-800-TI-CARES

Not redeem for Test Instruments. India, IT.

TI-Nspire™ CX

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