

Ch.9/10 Test: Tuesday!

- No notes.

- Ok to use a calculator.



- Some problems will be faster and easier without a calculator.

- Use study list as a guide for memorizing necessary formulas.



Ways to prepare for the test:

- Read through your ch.9/10 notes.
- Complete review sheet.
- Work through old homework problems.
- Practice new problems in online assignments/quizzes .



Study list for ch.9/10 test (vectors and matrices)

Ok to use a calculator.

No notes.

CHAPTER 9

Be able to calculate the following
for 2- and 3-dimensional vectors:

- component form given two endpoints
- magnitude and direction (*sketch diagram*)
- angle between 2 vectors
- sum of unit vectors
- add, subtract, & multiply by scalars
- simplify equations
- dot product (*vectors are perpendicular if = 0*)
- cross product (*creates a 3rd vector that is perp*)

Also, know the Law of Cosines and Law of Sines so you can solve for the magnitude and direction of a **resultant vector** from a given diagram.

CHAPTER 10

Be able to perform matrix operations by hand
and/or with a calculator when appropriate:

add, subtract, multiply, scalars

determinant (*if = 0, inverse does not exist*) DNE
(*if $\neq 0$, then there is an inverse*)

inverse

solve system of equations by writing a
matrix equation, then applying the inverse

$$\begin{matrix} \left[\right. & \left[\begin{matrix} x \\ y \\ z \end{matrix} \right] = \left[\begin{matrix} \\ \\ \end{matrix} \right] & \rightarrow & \left[\begin{matrix} x \\ y \\ z \end{matrix} \right] = \left[\begin{matrix} \\ \\ \end{matrix} \right] \\ A & B & & A^{-1}B \end{matrix}$$

HOME

SELECT COURSE

HONORS TRIG/PRECALCULUS, section 1, 2019-2020 ▾

GO

My Assignments

No Current Assignments

Past Assignments (15)

Grades

Your final grade has not yet been posted

📅 Personal Study Plan -- Stewart :: PreCalculus - 7e

🌐 Resources

Use tools on your
dashboard in
Cengage/Webassign

Practice Another Version

1. SPreCalc7 9.4.014.MI.

Find the magnitude of the given vector.

$$\langle 1, -6, 3\sqrt{2} \rangle$$


Grade This

Show Answer

Show Solution

Try Again

Click *Grade This* after you answer a question, and then click *Show Answer*. After answering all question parts, you can click *Show Solution* or *Try Again*.

16.  -1 points SPreCalc7 9.4.014.MI.

Find the magnitude of the given vector.

$$\langle 1, -2, 4\sqrt{2} \rangle$$

(No Response)

Need Help?

Read It

Master It

Talk to a Tutor

Practice Another Version

Refer to previous assignments in Cengage/Webassign



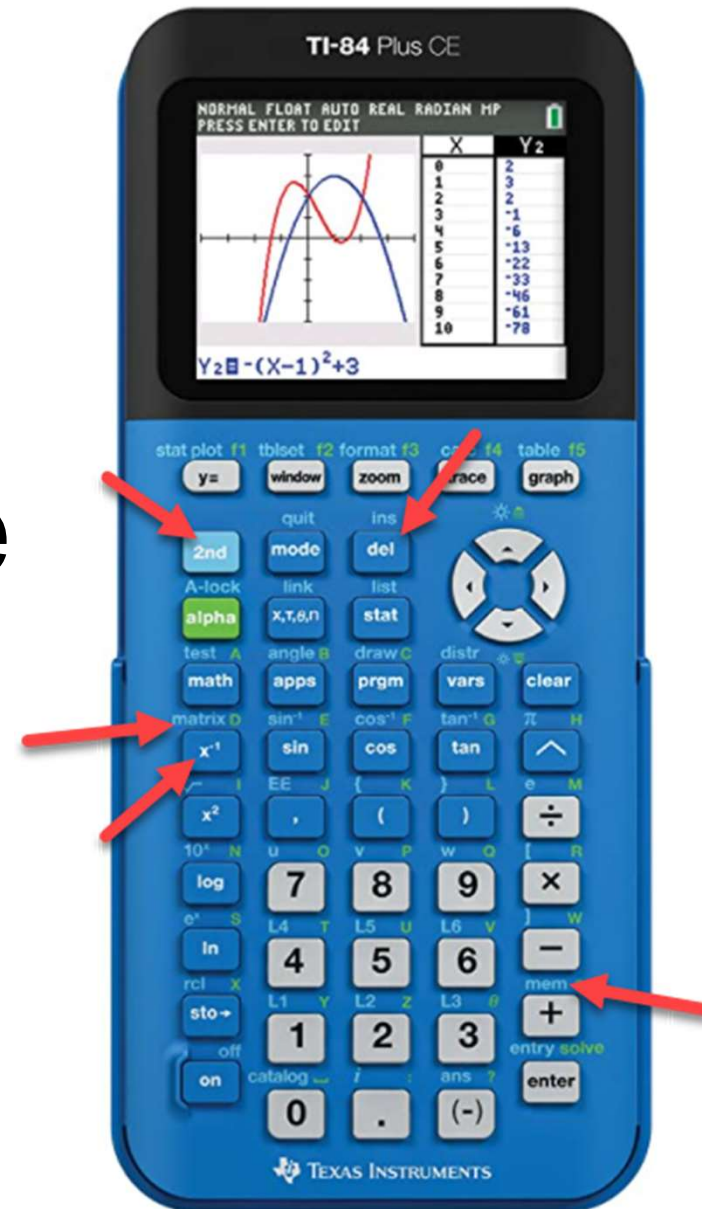
To clear **matrices**: *addition*

2nd MEM (above + symbol)

2: Mem Mgmt / Del

5: Matrix

push **delete** to clear
the matrix next to the
arrow ►



To convert **decimals to fractions**:

MATH (far left column)

<enter>

<enter>

$$\begin{bmatrix} \frac{2}{7} & \frac{-3}{7} \\ 6 & \frac{5}{14} \end{bmatrix}$$

Use **ANS** to bring down values
from previous calculations
(bottom row, above negative sign)

CHECK ANSWERS#1-9

1. **D**

2. **A**

3. **A**

4. **B**

5. **B**

6. **D**

7. **C**

8. **A**

9. **D**