

Solutions for all assignments this week are posted. [including Yesterday's]

From now or we will use a laminated class set of reference sheets for all tests.



$$\begin{array}{c} 149a \\ \hline 1 \\ \hline 2x - y + 2z = 6 \\ \hline 1 \\ \hline 3x + 2y - z = 13 \\ \hline 1 \\ \hline 3x + 3z = 9 \\ \hline 1 \\ \hline 2x - y + 2z = 6 \\ \hline 1 \\ \hline 3x + 2y - z = 13 \\ \hline 1 \\ \hline 3x + 2y - z = 13 \\ \hline 7x + 3z = 25 \end{array}$$

notes from Friday 7.1.1 Introduction





notes from Friday 7.1.1 Introduction

(52) - proper #3.59/321  
has been increasing at 4<sup>th</sup> peryear  
a) 10 years ago 
$$y = ab^{\times}$$
  
 $y = 3.59 (1.04)^{-10}$   
b)  $10 = 3.59 (1.04)^{\pm}$   
when will it cost  $10$ ?



notes from Friday 7.1.1 Introduction





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Law of Sines  $\frac{\sin A}{a} = \frac{\sin B}{b}$  where *a* is the side length opposite angle A, etc. Law of Cosines  $c^2 = a^2 + b^2 - 2ab \cdot cos C$  where c is the side length opposite angle C



45°-45°-90° Triangle shortcuts V The hypotenuse length is viz times the length of the leg. (both legs are equal) Geometry from 30°-60°-90° Triangle Shortcuts ✓ The hypotenuse is twice the length of the shortest leg.
✓ The longest leg is √3 times the length of the shortest leg.







## What do earthquakes, cell phones, and music have in common?

## Their behavior is cyclic, periodic, or circular.

Therefore, they can be analyzed, modeled, and/or

controlled with knowledge of.....

















Sound waves Pressure Waves Ocean Waves Microwaves Electromagnetic Waves Radio Waves Earthquake Energy Waves













Today's Brain Break is inspired from David Copperfield (the Magician)



