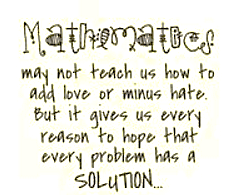
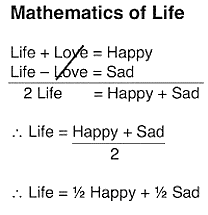
**Mrs. Edwards ♥ A/B Day Schedule ♥2015-2016 ♥ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ♥ Block\_\_\_\_\_\_**

**Algebra 2 & Trigonometry Unit 7 Syllabus**

***HOW TO GRADE: TAKE OFF ½ FOR EACH MISSED REQUIREMENT Did you....***

1. *Write your name and date along with the assignment in the top margin? All work must be done in pencil.*
2. *Copy all problems and pictures.* **All graphing problems must be done on graph paper.**
3. *Attempt every problem to the best of your ability using your book and notes for assistance?*
4. *Show ALL work making it neat and organized? (Hint: circle or underline your answers).*
5. *Check and correct ALL odd book problems in the back of book using a non-black pen?*
6. *Make a full correction in a non-black pen on any worksheets by going to cindyedwards.weebly.com?*

**Unit 7: Sequences and Series - *Write the grade (0-3) in the space next to each assignment***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DATE** | **TEXT** | **OBJECTIVES** | **HOMEWORK** | **GRADE** |
| **Fri/Mon, March 4/7** | 11-1 | **Test on Unit 8**  Sequences as Functions | Read 11-1 p. 681-84 and do  Introduction to Sequences Worksheet |  |
| **Tue/Wed,**  **March 8/9**  *Day 1* | 11-2 | Arithmetic Sequences & Series | p. 692-693 15-55 odd, 57-60 all, 61-65 odd |  |
| **Thu/Fri,**  **March 10/11**  *Day 2* | 11-3 | Geometric Sequences & Series | p. 700-701 # 17-39 odd, 42-52, 55-57 all |  |
| **March 14- 18 is Numeracy Week!**  *Dress up each day to show your Spirit!*  **Monday:** Pi Day  **Tuesday:** “Mathy Words”  **Wednesday:** Wear your Favorite Formula  **Thursday:** Wear your Favorite Number  **Friday:** I Love Numeracy | | | | |
| **Mon/Tue,**  **March 14/15**  *Day 3* | 11-4 | Infinite Geometric Series | p. 708-709 #18-34 all |  |
|  | *Review Summation Notation* | Summation & Sigma Notation Practice WS |  |
| **Wed/Thu,**  **March 16/17**  *Day 4* | 11-5 | Recursion and Iteration  Review 11-1 to 11-4 | Unit 7 Test Review Worksheet |  |
| **Fri/Mon,**  **March 18/21**  *Day 5* | 11-1  to  11-4 | **Test on Unit 7** | **TOTAL POINTS:** | 18 |



**I love Math!**

#### Unit 7: Sequences and Series

#### UNIT 7 LEARNING TARGETS:

#### TARGET 1:

**♥I can recognize, define and graph a sequence or series as arithmetic, geometric,**

**infinite geometric or neither.**

**♥I can generalize patterns in a sequence using explicit and recursive formulas.**

**TARGET 2:**

**♥I can apply the properties of arithmetic or geometric sequences and series to solve real-life problems.**

**♥I can compute the common difference or ratio, write the first n terms, and find the nth term.**

**TARGET 3:**

**♥I can, when given the formula, find the sum of any series, including problems in summation notation.**

**UNIT 7 ENDURING UNDERSTANDINGS:**

1. Mathematical models are generated from investigating real life patterns.
2. Patterns occur naturally and can be recognized, extended, and generalized with words and symbols.

**UNIT 7 ESSENTIAL QUESTIONS:**

1. How can recognizing patterns help solve real world problems and make predictions?
2. What kind of patterns can be modeled mathematically?
3. How is an arithmetic sequence related to a linear model?
4. How is a geometric sequence related to an exponential model?
5. Can all patterns be defined recursively?

**SOL Objectives (2009):**

AII/T.2 The student will investigate and apply the properties of arithmetic and geometric sequences and series to solve real-world problems, including writing the first *n* terms, finding the *n*th term, and evaluating summation formulas. Notation will include Σ and *an*.

**VIRGINIA BEACH OBJECTIVES:**

**A2T.EX.7.1**

#### The student will define and distinguish between sequences and series, including arithmetic and geometric sequences, and arithmetic and geometric series.

**A2T.EX.7.2**

#### The student will apply the properties of arithmetic or geometric sequences and series to solve real-world problems, including computing the common difference or ratio, writing the first n terms, and finding the nth term, and evaluating summation formulas. Notations will include and an.

**A2T.EX.7.3**

#### The student will, when given the formula, find the sum of a convergent infinite series.

**A2T.EX.7.4**

The student will generalize patterns in a sequence using explicit and recursive formulas.