

Pre-Calculus 1st Semester Assignment Sheet

Topic	Assignment
Chapter 1: Functions and Graphs	Blitzer/ATA
1.1 Graphs and Graphing Utilities	<ol style="list-style-type: none"> Blitzer #75-82 Matching graphs with stories
1.2 Domain & Range, Extrema	<ol style="list-style-type: none"> Matching activity D/R Worksheet Extrema Worksheet Blitzer #65-77all, 79-91
1.3 Increasing/Decreasing/Constant Positive/Negative/Zero Even/Odd Functions	<ol style="list-style-type: none"> Increasing/Decreasing Worksheet Positive/negative, zeros worksheet Blitzer #1-16, 17-27 odds, 29-32, 33, 35 Increasing/Decreasing Matching Activity Even/odd Functions worksheet
1.5 Rate of Change	<ol style="list-style-type: none"> ATA unit 2 h/w #5 Math lib- in groups of 2-3
Mid Term Exam- Mid Ch 1 Test	
1.3 Piecewise Functions	<ol style="list-style-type: none"> Foldable Blitzer 45, 51, 53, 54
1.6 Transformation	<ol style="list-style-type: none"> Ata Unit 2 h/w #6 Parent Functions and Transformations Blitzer #17-31 odds, 53-117 odds Ata Unit 2 h/w # 7 Graphing Functions
1.7 Combinations of Functions	<ol style="list-style-type: none"> Blitzer #1-31 every other odd, 35, 39, 41, 45, 49, 53, 57, 61, 65, 67, 71-79 odds ATA Unit 2 h/w #9 Mazes Coloring Activity
1.8 Inverse	Blitzer #11, 13, 23-27 odds, 29-39, 41-47 odds
End of Ch 1 Test	
Chapter 2: Polynomial Functions	
2.2 Quadratic Functions	Blitzer 1-8 all, 9-29 odds
2.3 Polynomial Functions & Graphs	Blitzer #15-31 odds, 41, 43, 47
2.4 Dividing Polynomials, Remainder Factor Theorem	Blitzer 1-45 every other odd
2.5 Zeros of Polynomial Functions	<ol style="list-style-type: none"> Blitzer #1, 3, 9-13 odds, 19, 23, 25, 27, 31 Matching Activity
2.6 Rational Functions and Graphs	Blitzer 1-7 odds, 9-21, 23-35 odds, 49, 51, 53
Chapter 3: Exponential and Log Functions	
3.1 Graphing Exponential Functions	Blitzer #25-45 every other odd, 53, 73 ATA Unit 4 h/w #1
3.2 Intro to Logs	ATA Unit 4 h/w #4
3.3 Properties of Log	ATA Unit 4 h/w #5

3.4 Exponential and Log Equations	1. ATA Unit 4 h/w #7, 8, 9 2. Math Lib 3. Scavenger Hunt
Growth and Decay Word Problems	ATA Unit 4 h/w #2 and 11
Compound Interest	ATA Unit 4 h/w #3
3.5 Graphing Log Functions	ATA Unit 4 h/w #6

Trig Assignment Sheet 2nd Semester

Topic:	Resource:	Assignment
1. Angle Measures	Ata 5.1	1. Ata- odds, 2. Sorgenfry pg.4 #47-57 odds, wksht 3. Degrees/Radian Maze
2. Trig Functions	Ata 5.4	all
3. Solving Right Triangle. (Lab)	Ata 5.5 Blitzer 4.3	Ata- all Blitzer- #55-59 odds
4. Trig Functions of Arbitrary Angles/Unit Circle. (project)	Ata 5.6 Sorgenfry	Ata 1-4 all Sorgenfry- page 27 #1-6 all, 23-37 odds 3. Unit Circle Maze
5. Graphing Sine/Cosine. (project)	Handout	4.2 #3, 7, 9, 5, 10, 13, 19, 15, 25, 27, 35, 37
6. Graphing the other 4 Functions	Handout	4.2 #43, 47, 48, 49, 55, 59
7. Phase Shift (horizontal translation)	Handout	4.3 #3, 9, 11, 19, 25, 27, 31, 35, 39, 43, 45, 49, 51
8. 4.1 Law of Cosine	Sorgenfry	4.1 Pg. 128 #1-13 odds, 17, 21, 24 (1.52×10^{-8}), 41
9. 4.2 Law of sine	Sorgenfry	4.2 Pg 133 #1-17 odds except 13, 18 (14.6 m), 20 (105 m), 27, extra credit #28
10. 4.4 Area of Triangles	Sorgenfry	4.4 Pg. 144 #1-7 odds, 15, 17-25 odds, 26 (43.8 sq. units) 2. Math Lib
11. 3.1 Simplifying Trig Expressions.	Sorgenfry	Pg 87 #1-17 odds, 23, 27, 29, 35
12. 3.2 Proving Trig Identities	Sorgenfry	Pg 91 #1, 3, 17, 23, 29, 35, 41, 45, 47, 49
13. 3.3 Sum/Diff Formulas	Sorgenfry	Pg 96 #1-5 odds, 9, 13-23 odds
14. 3.4 Double and Half Angle Formulas	Sorgenfry	Pg 102 31, 33, 37, 39 and handout
15. 3.5 Tangent Formulas	Sorgenfry	Pg. 106 #1, 5-15 odds, 19, 21
16. 3.6 Trig Equations	Sorgenfry	Pg. 112 #1-15 odds, 33
Project- Create a roller coaster incorporating 3 parent functions to include trig. Counts as a test grade		
Trig Escape Room Activity		