

# Pre-Calculus 12 - Assignment List

## TERM ONE

Sec	Topic	Assignment
	Review	supplement
0.1	Functions Review	supplement
	<b><u>Transforming Graphs of Functions</u></b>	
3.1	Translating Graphs of Functions	p. 168 4-10, 11a, 12, 13b, 14-18
3.2	Reflecting Graphs of Functions	p. 183 1, 3, 5, 6b, 7-15
3.3	Stretching and Compressing Graphs of Functions	p. 201 3-8, 9a, 10, 11b, 12, 14, 16
3.4	Combining Transformations of Functions	p. 226 3-6, 7a, 8b, 9-12
3.5	Inverse Relations	p. 242 1, 2, 4, 5ad, 6, 7ab, 8-15
	<b><u>Combining Functions</u></b>	
4.1	Combining Functions Graphically	p. 266 A-D, 1-3
4.2	Combining Functions Algebraically	p. 277 1, 2, 4-15
4.3	Introduction to Composite Functions	p. 298 3, 4, 7-10, 12-17
4.4	Determining Restrictions on Composite Functions	p. 314 1, 3-12, 14
	<b><u>Exponential and Logarithmic Functions</u></b>	
5.1	Graphing Exponential Functions	p. 341 C, 1-4
5.2	Analyzing Exponential Functions	p. 349 1-4, 6-10, 13
5.3	Solving Exponential Equations	p. 363 4, 5, 6ace, 7ac, 8, 9ace, 10ace, 11ac, 12-15
5.4a	Logarithms	p. 380 2-5, 6a, 7-9, 13, 15
5.4b	The Logarithmic Function	p. 380 10-12, 14, 16, 17
5.5	The Laws of Logarithms	p. 393 1-3, 4abc, 5-9, 11, 12ad, 13bd, 14, 15, 16bd, 17, 18
5.6a	The Change of Base Rule	p. 405 1, 3-5, supplement
5.6b	Analyzing Logarithmic Functions	p. 405 2, 6-12
5.7a	Solving Exponential Equations	p. 421 7, 8, 10, 12, 14
5.7b	Solving Logarithmic Equations	p. 421 1, 2, 3ad, 4ad, 5, 6, 9, 11, 13, 15
5.8	Solving Problems with Exponents and Logarithms	p. 435 2-12
5.x	Continuous Growth and Decay	supplement
	<b><u>Polynomial Expressions and Functions</u></b>	
1.1	Dividing a Polynomial by a Binomial	p. 7 3ac, 4ad, 6, 7a, 8a, 9-12, 14
1.2a	Factoring Polynomials - The Remainder Theorem	p. 19 3, 4a, 6-8, 14, 15
1.2b	Factoring Polynomials - The Factor Theorem	p. 19 1, 2, 5, 9-13
1.3	Graphing Polynomial Functions	p. 32 A-D, 1, 2
1.4a	Relating Polynomial Functions and Equations	p. 46 1, 3-8, 14, 15
1.4b	Relating Polynomial Functions and Equations (Day 2)	p. 46 2, 9-13, 16
1.5	Modeling and Solving Problems with Polynomial Functions	p. 61 1, 2, 5-7, 10, 12

**ASSIGNMENT DATES:** Tues. Sept. 24, Tues. Oct. 15

**TEST DATES:** Sept. 17, Tues. Oct. 8, Wed. Oct. 30

**Rewrite date:** Fri. Nov. 1

**You must not miss any of these test days. NO OTHER MAKEUP TESTS will be scheduled. The makeup test is optional.**

## TERM TWO

Sec	Topic	Assignment
	<b><u>Radical and Rational Functions</u></b>	
2.1a	Properties of Radical Functions	p. 89 1, 2, 5ac, 6, 8, 10-12, 14
2.1b	Solving Radical Equations	p. 89 3, 9, 13, supplement
2.2	Graphing Rational Functions	p. 101 A, B, 1-3
2.3a	Analyzing Rational Functions	p. 113 1, 2, 4, 5ab, 6ac, 7ab, 9, 10
2.3b	Solving Rational Equations	p. 113 3, 8, 11, supplement
2.4	Sketching Graphs of Rational Functions	p. 134 1, 2, 3b, 4a, 5-7, 8a
	<b><u>Trigonometry</u></b>	
6.1a	Trigonometric Ratios for any Angle in Standard Position	p. 474 3-5, 8, 9
6.1b	Trigonometric Ratios for Special Angles in Standard Position	p. 474 2, 6, 7, 10, 11
6.2	Angles in Standard Position and Arc Length	p. 483 A-D, 1-4
6.3	Radian Measure	p. 494 4ace, 5, 6, 7bd, 8bd, 9, 10, 11ace, 12-15
6.4	Graphing Trigonometric Functions	p. 511 D, 1-4
6.5	Trigonometric Functions	p. 520 3-11
6.6a	Combining Transformations of Sinusoidal Functions	p. 534 3, 5, 8-11 p. 547 6
6.6b	Trigonometric Functions from Graphs	p. 534 4, 6, 7 p. 547 3-5
6.7	Applications of Sinusoidal Functions	p. 547 7-11
	<b><u>Trigonometric Equations and Identities</u></b>	
7.1	Solving Trigonometric Equations Graphically	p. 576 1-3, 5, 7, 9-13
7.2a	Solving Trigonometric Equations Algebraically	p. 592 2-4, 6-10
7.2b	Solving Trigonometric Equations Algebraically (Higher Order)	p. 592 5, 11-17
7.2c	Solving Trigonometric Equations Algebraically (Different Periods)	supplement
7.3	Reciprocal and Quotient Identities	p. 611 3-12
7.4	The Pythagorean Identities	p. 625 3, 5-12
7.5	Sum and Difference Identities	p. 640 1, 3, 5, 7-13, 14ab, 15-17
7.6	Double-Angle Identities	p. 657 5-18
	<b><u>Permutations and Combinations</u></b>	
8.1	The Fundamental Counting Principle	p. 689 3, 5-15
8.2a	Factorial Notation	supplement
8.2b	Permutations of Different Objects	p. 701 2, 3, 4ac, 5-9, 10abc, 11
8.3	Permutations Involving Identical Objects	p. 711 1, 2, 3ac, 4-5, 6a(i, iii), 7, 8, 10, 11ac, 12, 13
8.4a	Combinations	p. 726 1, 3, 4ac, 5ab, 6ac, 7ac, 8-14, 15ac, 16
8.4b	Combinations (at least, at most)	supplement
8.5	Pascal's Triangle	p. 735 A-E, 1-4
8.6	The Binomial Theorem	p. 742 1, 3ad, 4, 5, 7ace, 9ac, 10, 11ac, 12, 14, 15, 17

**ASSIGNMENT DATES:** Tues. Nov. 5, Thurs. Nov. 28, Wed. Jan. 8

**TEST DATES:** Fri. Nov 22, Wed. Dec. 11, Tues. Jan. 14

**Rewrite date:** Thurs. Jan. 16

**FINAL EXAM:** Thursday, January 23 and Friday, January 24

**You must not miss any of these test days. NO OTHER MAKEUP TESTS will be scheduled. The rewrite test is optional.**