

Second Quarter Assignments, from Oct. 16

IB Precalculus

Wed., Oct. 16 (C) Test, Ch. 3	Goals Compute using sequences and series. Solve problems involving the binomial theorem. Assignment Test, Sequences and Series (only one part)
Thurs., Oct. 17 (C) Early release, activity	Thursday, Oct. 17, is the last day of the first quarter. The last assignment that counted on the first quarter was the second assignment on §3.5. Goals Use a spreadsheet to perform basic tasks. Assignment Spreadsheet introduction
Mon., Oct. 21 §4.1, 4.2	Goals Identify features of exponential functions. Use the natural exponential base and understand why it is so important. Vocabulary base, exponent, index, power function, exponential function, laws of exponents, rational exponent, exponential growth curve, exponential decay curve, growth or decay factor, half-life, compound interest formula, e , continuous change, incremental change, continuously compounded interest, natural exponential function Assignment §4.1 12, 13, 14; §4.2 5, 6, 7; IB Functions 1 worksheet , due W-Th, Oct. 30-31
Tues., Oct. 22 §4.3	Goals Define and evaluate logarithms. Use properties and laws of logarithms. Vocabulary logarithm, common logarithm, natural logarithm, laws of logarithms Assignment §4.3 1beh, 2cfi, 3bcgijn, 5a, 7b
W-Th, Oct. 23-24 §4.3, 4.4	The PSAT is scheduled for Wednesday morning, 7th period will not meet. Goals Use properties and laws of logarithms, including change of base. Use logarithms and exponents to solve equations. Vocabulary change of base formula, exponentiate Assignment §4.3 8abef, 9bc, 10acef; §4.4 1bcehi For §4.4 #1, <i>both</i> write in terms of logarithms and then use a calculator to solve.
Fri., Oct. 25 §4.4	Goals Use logarithms and exponents to solve equations. Assignment §4.4 10, 12adegi
Mon., Oct. 28 Review	Goals Use exponential and logarithmic functions. Assignment Study for the test.
Tues., Oct. 29 Test, Ch. 4	Goals Use exponential and logarithmic functions. Assignment Test, Exponential and Logarithmic Functions (only one part)
W-Th, Oct. 30-31 §5.1; Functions 1 ws due	IB Functions 1 worksheet due. Goals Measure angles in radians and degrees. Find arc length and sector area. Vocabulary trigonometry, angle, vertex, initial side, terminal side, standard position, positive angle, negative angle, anticlockwise, coterminal, revolution, degree, decimal, sexagesimal, central angle, arc, minor arc, major arc, sector, chord, segment of a circle, circumscribed, inscribed, radian, radial angle, unit circle, arc length Assignment §5.1 1f, 2bcg, 3ae, 6, 7b, 9, 10, 11 In the book, the diagram for #7b in §5.1 has a typo; the angle should be $5\pi/6$. IB Number and Algebra review worksheet assigned , due Fri., Dec. 13
Fri., Nov. 1 §5.2	Goals Find arc length and sector area. Define periodic functions and the wrapping function. Use the definitions of the trigonometric functions. Vocabulary wrapping function, periodic function, period, fundamental period, trigonometric functions, sine, cosine, tangent, secant, cosecant, cotangent, circular functions, reciprocal identities Assignment §5.2 3ad, 4adf
Mon., Nov. 4 §5.2	Goals Use the definitions of the trigonometric functions. Evaluate trigonometric functions in any quadrant without a calculator. Assignment §5.2 3cfghi, 4eh, 5ab, 6, 8; a calculator may <i>only</i> be used for 3g and 3i
Tues., Nov. 5 §5.3	Goals Identify the important features of trigonometric graphs; graph trig functions. Vocabulary period, odd function, even function, amplitude, period, phase shift, baseline shift, odd/even function identities, cofunction identities, phase shift identities Assignment §5.3 1bceg You must use graph paper and a straightedge. Make your graphs look <i>good</i> .
W-Th, Nov. 6-7 §5.3	Goals Identify the important features of trigonometric graphs; graph trig functions. Vocabulary period, odd function, even function, amplitude, period, phase shift, baseline shift, odd/even function identities, cofunction identities, phase shift identities Assignment §5.3 3a, 4, 5, 6
Fri., Nov. 8 §5.4	Goals Solve trigonometric equations. Assignment §5.4 1abdfgij
Tues., Nov. 12 §5.4	Goals Solve trigonometric equations. Use trigonometric functions to model periodic scenarios. Vocabulary analytic solution, numerical solution Assignment §5.4 2cd, 4abd, 5, 6

W-Th, Nov. 13-14 §5.4	Goals Use trig identities to solve equations. Vocabulary trigonometric identities, Pythagorean identities, double-angle identities Assignment §5.4 7abcdef; you may <i>only</i> use a calculator for parts (d) and (e)
Fri., Nov. 15 §5.4	Goals Use trig identities to solve equations. Assignment §5.4 7gh, 9
Mon., Nov. 18 §5.4	Goals Prove trigonometric identities. Assignment Trig identity problems worksheet
Tues., Nov. 19 Review	Goals Solve a variety of types of problems using trigonometric functions. Assignment Study for the test.
W-Th, Nov. 20-21 Test, Ch. 5	Goals Solve a variety of types of problems using trigonometric functions. Assignment Test, Trigonometric Functions and Equations
Fri., Nov. 22 Early release (A)	Goals Solve problems from the Number and Algebra section of the IB Math A&A syllabus. Assignment Seventh period can use this time to work on the worksheet.
Mon., Dec. 2 Practice semester exam, paper 1	Goals Assess your readiness for the first semester exam. Assignment First semester review worksheet given in class as a practice test over two days; corrected version is due Fri., Dec. 6
Tues., Dec. 3 Practice semester exam, paper 2	Goals Assess your readiness for the first semester exam. Assignment First semester review worksheet given in class as a practice test over two days; corrected version is due Fri., Dec. 6
W-Th, Dec. 4-5 Review	Goals Show mastery of the Math A&A SL topics from first semester. Assignment Study for the test. Write the essay.
Fri., Dec. 6 First semester exam, paper 1	Corrected first semester review worksheet due Goals Show mastery of the Math A&A SL topics from first semester. Assignment First Semester Exam, paper 1
Mon., Dec. 9 First semester exam, paper 2	Goals Show mastery of the Math A&A SL topics from first semester. Assignment First Semester Exam, paper 2
Tues., Dec. 10 Worksheet time	All IB juniors will be out for the group 4 project. Sophomores can work on the worksheet that comes due on Friday.
W-Th, Dec. 11-12 Explorations ideas;	Goals Find three approved ideas for exploration topics. Assignment Start making a list of possible explorations ideas. You must post three different approved ideas to the shared file by Friday, Jan. 10. Don't duplicate anyone else's ideas.
Fri., Dec. 13 Exam debrief; Number & Algebra ws and reflective essay due	IB Number and Algebra worksheet due The reflective essay is due on Schoology by midnight at the end of Dec. 13. Goals Show mastery of the Math A&A SL topics from first semester. Assignment Figure out what you still need to learn from the first semester material and make a plan for how to learn that. IB Functions 2 worksheet assigned, due Tues., Jan. 28
Mon., Dec. 16 §6.1	Goals Find distance and midpoint in three dimensions. Vocabulary midpoint formula, distance formula Assignment §6.1 1c, 2, 5a, 9
Tues., Dec. 17 §6.1	Goals Solve geometric problems involving three dimensional figures. Vocabulary surface area and volume formulas Assignment §6.1 11, 13
W-Th, Dec. 18-19 §6.2	Goals Solve problems involving geometry and right triangle trigonometry. Vocabulary solve a right triangle Assignment §6.2 1bc, 2a, 3d, 4b, 7, 9, 15
Fri., Dec. 20 End of semester Early release (B)	Friday is the last day of the first semester. The last assignments that count on the second quarter are the semester exam and reflective essay. Goals Find three approved ideas for exploration topics. Solve problems from the Functions section of the IB Math A&A syllabus. Assignment Fourth period can use this time to work on the next worksheet or on their explorations ideas.