

Summer work for IB Math Applications SL and HL (Year 1)

Must achieve a score of **80** on each module on www.ixl.com

If you have difficulty logging in or completing the IXLs, please email Ms. Clore at

mclore@calvertonschool.org

Geometry	A.1 – Ratios and proportions B.9 – Midpoint formula: find the midpoint B.11 – Distance formula	E.4 – Equation of lines E.6 – Equation of parallel and perpendicular lines
Algebra 2	D.1 – Domain and range E.1 – Is (x,y) a solution to the system of equations? J.7 – Factor polynomials K.8 – Solve a quadratic equation by factoring K.11 – Solve a quadratic equation using the quadratic formula L.3 – Multiply polynomials M.4 – Simplify radical expressions with variables N.1 – Evaluate rational exponents	N.5 – Simplify expressions involving rational exponents I O.1 – Rational functions: asymptotes and excluded values O.2 – Evaluate rational expressions I S.3 – Convert between exponential and logarithmic form: all bases S.12 – Properties of logarithms: mixed review Z.1 – Pythagorean Theorem and its converse Z.3 – Trigonometric ratios: sin, cos, and tan

ADDITIONAL Problems for Higher Level (Optional)

Geometry	E.7 – Find the distance between a point and a line E.8 – Find the distance between two parallel lines T.12 – Surface area and volume review
Algebra 2	E.10 – Solve a system of equations using any method I.2 – Add and subtract complex numbers I.4 – Multiply complex numbers I.5 – Divide complex numbers J.5 – Factor by grouping K.12 – Using the discriminant M.5 – Simplify radical expressions with variables II M.13 – Solve radical equations N.6 – Simplify expressions involving rational exponents II O.3 – Evaluate rational expressions II P.4 – Composition of linear functions: find a value R.2 – Write and solve inverse variation equation Z.16 – Solve a right triangle
Precalculus	P.1 – Introduction to probability