UNIT: Trigonometry

<mark>Uses</mark> (<mark>uses</mark>) his/her knowledge (prior knowledge) of <u>ratio and proportion</u> to <mark>investigate</mark> <u>similar triangles</u>; and

Solves problems related to similarity

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<mark>Solves</mark> problems <mark>involving</mark> right triangles, <mark>using</mark> the primary trigonometric ratios; and

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Solves problems using the <u>Pythagorean theorem</u>

Solves problems involving acute triangles, using the sine law and the cosine law •

UNIT: Analytic Geometry

Models <u>problems</u> involving the intersection of two straight lines; AND

Molves problems involving the intersection of two straight lines

Solves problems using analytic geometry involving properties of lines and line segments

Verifies geometric properties of triangles and quadrilaterals, using analytic geometry

UNIT: Quadratic Relations of the Form y = ax² + bx + c

Determines the basic <u>properties</u> of quadratic relations

Relates transformations of the graph of $y = x^2$ TO the algebraic representation $y = a(x - h)^2 + k$

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Solves quadratic <u>equations</u>; AND

Interprets (interprets) the <u>solutions</u> (to quadratic equations) with respect TO the corresponding

Overall Expectations

<u>relations</u>

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Solves problems involving quadratic relations