## UNIT: Trigonometry

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

Solves problems related to similarity
-
Solves problems involving right triangles, using the primary trigonometric ratios; and
-

Solves problems using the Pythagorean theorem
-
Solves problems involving acute triangles, using the sine law and the cosine law
-

## UNIT: Analytic Geometry

Models problems 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 $y=a x^{\wedge} \mathbf{2}+b x+c$
Determines the basic properties of quadratic relations
-

Relates transformations of the graph of $y=x^{\wedge} 2$ TO the algebraic representation $y=a(x-h)^{\wedge} 2+k$
-
Solves quadratic equations; AND

Interprets (interprets) the solutions (to quadratic equations) with respect TO the corresponding
relations
-

Solves problems involving quadratic relations

