

TOPIC	Yes	No
ANALYTIC GEOMETRY		
DISTANCE between two points		
MIDPOINT between two points or ENDPOINT given midpoint		
DIVISION POINT given RATIO or FRACTION		
LINEAR FUNCTIONS		
Find the SLOPE of a line		
Write an equation in STANDARD ($y = ax + b$) form (... get 'y' by itself)		
Equation of a line given the SLOPE and a POINT		
Equation of a line given TWO POINTS		
X-intercepts and Y-intercepts		
Equation of a line PARALLEL to a given line (... SAME 'a')		
Equation of a line PERPENDICULAR to a given line (... N.R.S.)		
How to compare rules and determine the number of solutions in a system (parallel \rightarrow 0 solutions; coincident (same line) \rightarrow infinite solutions; anything else \rightarrow 1)		
How to translate a story into a SYSTEM OF RELATIONS (make the equations)		
Solve a system of equations and graph it.		
TRIGONOMETRY		
Find an ANGLE or SIDE using TRIGONOMETRIC RATIOS (SIN, COS, TAN)		
Find an ANGLE or SIDE using SINE LAW		
Find the measure of an OBTUSE angle (OBTUSE = 180 - ACUTE)		
How to find the AREA OF A TRIANGLE - all three methods:		
<ul style="list-style-type: none"> • General formula ($A = \text{base} \times \text{height} / 2$) 		
<ul style="list-style-type: none"> • Hero's formula $A = \sqrt{s(s - a)(s - b)(s - c)}$ 		
<ul style="list-style-type: none"> • Trigonometric formula $A = \frac{a \cdot b \cdot \sin C}{2}$ 		
TRIANGLES, ISOMETRY AND SIMILITUDE		
PYTHAGOREAN THEOREM ($a^2 + b^2 = c^2$)		
Angle relationships with parallel lines and transversals (opposites, alt. int., etc)		
Proving that two triangles are CONGRUENT (SSS, SAS and ASA)		
Proving that two triangles are SIMILAR (SSS, SAS and AA)		
Metric Relations		