

<b>Syllabus-EAID CAA Placement Test</b>	
<b>Mathematics</b>	
<b>Topics:</b>	
1	<b>Sets &amp; Functions</b>
	(a) Sets: Introduction to Set, Operations on sets (The difference between two sets).
	(b) Functions: Domain of polynomial and rational functions, the value of polynomial function (at specific point), and the composite function.
	(c) Determine an acceleration from the derivative for Polynomial function.
2	<b>Algebra</b>
	Convert a complex numbers to polar coordinates, Algebraic solutions of linear inequalities in one variable, solving the system of equations in two variables, Operation for matrices ( $2 \times 2$ ) (adding, subtracting, and multiplication), solution of linear equation in one variable, simplify and expand the equations, arithmetic sequence, Functions of General Angles.
3	<b>Analytical Geometry</b>
	Circles (Center the origin and radius, Parabolas ( $y = x^2$ and $x = y^2$ ) determine the vertex and symmetric axis. The slope of a line, distance between two points.
4	<b>Calculus- Integration</b>
	(a) Polynomial function.
	(b) Trigonometric functions <i>Sine</i> and <i>Cosine</i> .
5	<b>Probability and Statistics</b>
	Mean, and Range from ungrouped data, Introduction to Probability (a single throw with two uniform dice).