**Appendix 1**

# Summary of Changes to the Contents of *Syllabuses for Secondary Schools – Additional Mathematics (Secondary 4-5) 1992*

| Unit | Topics | Sub-unit | Content affected |
|---|---|---|---|
| 1 | Principle of Mathematical Induction | 1.3 | Point (2) “Examples concerned with simple inequalities” is deleted. |
| 4 | Trigonometry | 4.3 | “Compound Angles”<br>Delete “Triple angle formulae” and “Half angle formulae”. |
| 5 | Limits and Differentiation | 5.3 | “Differentiation”<br>In 5.3.4, “Higher Derivatives” is replaced by “Second Derivatives”. |
| | | 5.4 | “Applications of Differentiation”<br>In 5.4.4, “Small Increments” is deleted. |
| 6 | Inequalities | 6.4 | “Inequalities of the Form $\frac{ax+b}{cx+d} \geq k$” is deleted. |
| | | 6.5 | “Absolute values”<br>This topic should be taught with “Unit 3 : Quadratic Equations and Quadratic Functions”. |
| | | 6.6 | “Inequalities involving absolute values” is deleted. |
| | | 6.7 | “Absolute Inequalities” is deleted. |
| 7 | Coordinate Geometry | 7.12 | “Parabola, Ellipse and Hyperbola in Standard Position” is deleted. |

| Unit | Topics | Sub-unit | Content affected |
|---|---|---|---|
| 9 | Integration | 9.3 | "Simple Techniques of Integration"<br>Integration by substitution is not required. Only the formulae on the integrals of $(ax+b)^n$ (excluding n=-1), sin(ax+b) and cos(ax+b) are needed. |
| | | 9.4 | "Definite Integral"<br>The sub-unit is based on the techniques learned in Unit 9.1 to 9.3. |
| | | 9.5 | "Evaluation of Definite Integrals"<br>The sub-unit is restricted to the techniques learned in Unit 9.1 to 9.3. |
| | | 9.6 | "Applications of Definite Integrals"<br>The problems involved in finding volumes are restricted to the case with the x-axis or the y-axis as the axis of rotation. |
| 10 | Complex Numbers | 10 | The whole unit is deleted. |

Note: For details of the changes, please refer to Appendix 2.