Appendix A

MARKING GUIDELINES

Errors that are conceptually related to the learning outcomes associated with the question will result in a 1 mark deduction.

Each time a student makes one of the following errors, a ½ mark deduction will apply.

- arithmetic error
- procedural error
- terminology error in explanation
- lack of clarity in explanation, description, or justification
- incorrect shape of graph (only when marks are not allocated for shape)

Communication Errors

The following errors, which are not conceptually related to the learning outcomes associated with the question, may result in a ½ mark deduction and will be tracked on the *Answer/Scoring Sheet*.

E1 final answer	- answer given as a complex fraction - final answer not stated - impossible solution(s) not rejected in final answer and/or in steps leading to final answer
E2 equation/expression	- changing an equation to an expression or vice versa - equating the two sides when proving an identity
E3 variables	- variable omitted in an equation or identity - variables introduced without being defined
E4 brackets	- "$\sin x^2$" written instead of "$\sin^2 x$" - missing brackets but still implied
E5 units	- units of measure omitted in final answer - incorrect units of measure - answer stated in degrees instead of radians or vice versa
E6 rounding	- rounding error - rounding too early
E7 notation/transcription	- notation error - transcription error
E8 domain/range	- answer outside the given domain - bracket error made when stating domain or range - domain or range written in incorrect order
E9 graphing	- endpoints or arrowheads omitted or incorrect - scale values on axes not indicated - coordinate points labelled incorrectly
E10 asymptotes	- asymptotes drawn as solid lines - asymptotes omitted but still implied - graph crosses or curls away from asymptotes