



Graphical Methods Checklist

Achievement

I can:

Draw non-linear graphs from equations based on a selection from:

- Quadratics that can be factorised or put in the form $y = a(x h)^2 + k$
- \Box Factorised polynomials (coefficient of x^n = 1)
- \Box Rectangular hyperbolae of the form y = k/x
- \Box Exponential functions of the form y = ax, where a \in N
- \Box Logarithmic functions of the form y = loga x, where a \in N
- Graphs will show correct use of relevant features including:
 - Intercepts
 - Symmetry
 - Maxima and minima
 - Asymptotes
 - □ Behavior of graphs at large values of x and y

Merit

l can

- Draw graphs of equations or write equations for given graphs
- □ Interpret features of graphs

Assessment of plotting graphs and identifying features will be based on a selection from:

- \Box Rectangular hyperbolae of the form y = k/x
- \Box Exponential functions of the form y = a^x or y = a^(bx + c), where b or c = 0
- \Box Logarithmic functions of the form y = a log_b(x) or y = a log_b(bx + c), where b or c =

Excellence

I can:

Determine and apply an appropriate graphical model for a situation

The model could include more than one equation, or piecewise function, to describe a situation: Graphs could include:

- \Box Cubics and parabolas with coefficient of xⁿ \neq 1
- \Box Exponential functions of the form y = a^(bx + c), where b and c \in R
- \Box Logarithmic functions of the form y = a log_b(bx + c), where b and c \in R