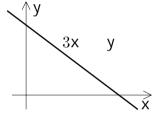
he niversity of New South a es Schoo of Mathe atics and Statistics

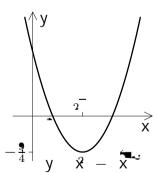
Mathematics Drop-in Centre

GRAPHS

Graph's etching is a very i portant's i Fro a we drawn graph you ay be abe to i ediate y see properties of a function including roots i its turning points and where the function is increasing or decreasing Graphs should a ways be **large** and **neatly drawn** and i portant features should be **labelled**



 $_2$ - etting y gives the x intercept , we p ot these points and draw the ine joining the



he quadratic equation y ax bx c represents a **parabola** os etch the graph we need on y nd its roots see revision wor sheets on quadratics if you need and note its concavity. For a ore accurate s etch the y intercept and ver tex ay a so be usefu. Consider for ex a pe y x - x here are x intercepts at the roots of the quadratic.

Tf 2.49274 w 1 J 1 i 0 8.6W n4Tf 46.68(b) tercepts on the axes. For example, consider 3 Substituting x

bx c and so ving for y gives the y intercept

EXERCISES

P ease try to co p ete the fo owing exercises Re e ber that you **cannot** expect to understand athe atics without doing ots of practice. P ease do not oo at the answers before trying the questions. If you get a question wrong you should go through y