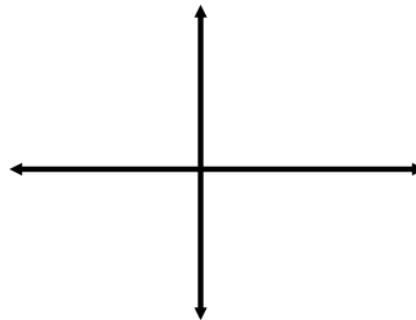Name: _____ 5-a-day Core 1

23rd March

Simplify

$\sqrt{125} - \sqrt{45}$

Find the set of values of x for which
both 5(x – 3) > 9 – x
and (3x + 1)(2 + x) < 0

Write x² + 4x + 13 in the form
(x + a)² + b

Sketch the curve with equation
y = x² + 4x + 13
showing clearly any intersections with
the coordinate axes.

Find the value of the discriminant of
x² + 4x + 13