2

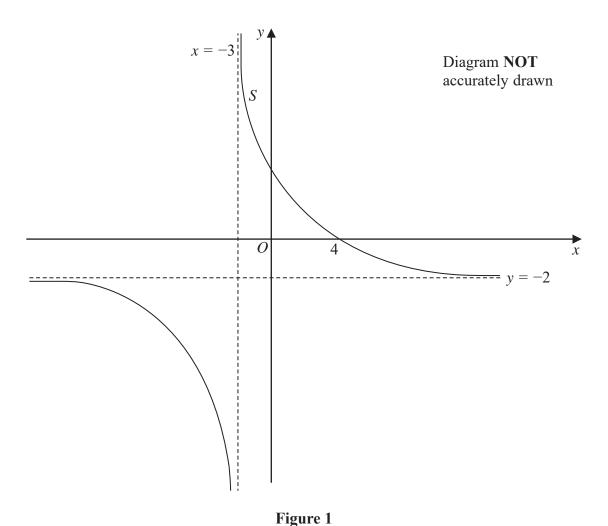


Figure 1 shows part of the curve S with equation $y = \frac{ax + b}{x + c}$ where a, b and c are integers.

The asymptote to S that is parallel to the x-axis has equation y = -2

The asymptote to S that is parallel to the y-axis has equation x = -3

The curve crosses the x-axis at the point with coordinates (4, 0)

The curve crosses the y-axis at the point with coordinates (0, p) where p is a rational number.

Find

- (i) the value of a,
- (ii) the value of b,
- (iii) the value of c,
- (iv) the value of p.

(4)



