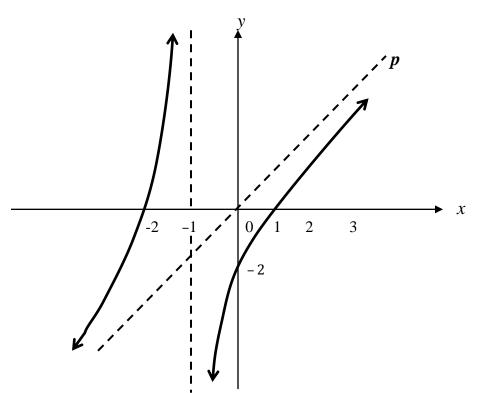
Worksheet 6 Year 13 Mathematics

Write the answers in your Exercise Book.

Study the **top-heavy** function shown below and then answer the questions that follow.



- (a) What are the coordinates of the *x*-intercepts? (1 mark)
- (b) What are the coordinates of the *y*-intercept? $(\frac{1}{2} mark)$
- (c) State the equations of the **vertical** asymptote. (1 mark)
- (d) What is the name of the asymptote represented by line p? ($\frac{1}{2}$ mark)
- (e) The graph has the equation of the form

$$y = \frac{(x+a)(x-b)}{(x+c)}$$

Find the values of a, b, c and d. (2 marks)