3. Functions and Inverses

The Straight Line Graph

→ $y = mx + c$
- m = gradient or $\frac{\Delta y}{\Delta x}$ or $m = \frac{y_2 - y_1}{x_2 - x_1}$
- c = is the y-intercept

The quadratic function / parabola will be dealt with in section E.

The hyperbola

→ $y = \frac{k}{x-p} + q$
- k = the constant; if k is negative the graph is in the 2nd and 4th quadrants, and if k is positive the graph falls in the 1st and 3rd quadrants.
- p = is the shift left (x + p) or right (x − p) of the graph. $x = p$ is the horizontal axis
- q = shift up (+ q) or down (-q) of the graph. $y = q$ is the vertical asymptote of the graph.

There are two lines of symmetry for the hyperbola →
The gradient is always + 1 or − 1.
To find c (y = mx + c) substitute the point of intersection of the two asymptotes.
Eg. Given that $f(x) = \frac{3}{x-2} + 3$ find the equations of the two lines of symmetry. Gradient / m = ± 1; the point of intersection is (2; 3).

y = - 1x + c	or	y = 1x + c
3 = -1 (2) + c		3 = 1(2) + c
c = 5		c = 1
y = -x + 5	or	y = x + 1

Grade 10 Final Exam Pure Maths Questions

Puja Mehta

Grade 10 Final Exam Pure Maths Questions:

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