

Functions

→ Paper 1

* Straight lines:

$$y = mx + c$$

$$y - y_1 = m(x - x_1)$$

m = gradient

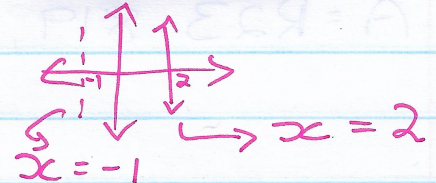
c = y -intercept

→ x -intercept if $y = 0$

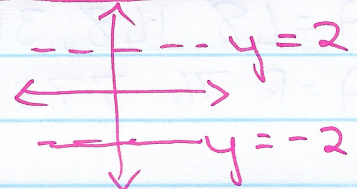
→ y -intercept if $x = 0$

Special lines:

• Vertical



• Horizontal



* Parabola:

$$y = ax^2 + bx + c \rightarrow \text{Standard form}$$

$$y = a(x - p)^2 + q \rightarrow \text{Turning point form}$$