IGCSE ADDITIONAL MATHEMATICS

1. Functions

POI: Point of intersection

- One–one: each x value maps to 1 distinct y value (eg. $f(x) = 3x - 1$)
  - Line cuts through the graph once

  Note: $f(x)$ alternate notation is $f : x \rightarrow$

- Many–one: for 2 input values, there is 1 output value (eg. $f(x) = x^2 - 2x + 3$)
  - Line cuts through the graph twice
- One–many: For one input value there are 2 output values (eg. $f(x) = \pm\sqrt{x}$)
- Domain: x value
  - Eg. $f(x) = 2x - 1, \ -1 \leq x \leq 3$
    - Domain is $-1 \leq x \leq 3$
- Range: y value
  - Range is $-3 \leq x \leq 5$
    - Sub x = -1 into $f(x) = $-3
    - Sub x = 3 into $f(x) = 5$
- Composite functions
  - $f(g(x))$ or $fg(x)$
    - Sub all instances of x in $f(x)$ into $g(x)$
  - $f^2(x)$
    - $ff(x)$
- Modulus functions
  - Mod of any number is always positive
  - $|x| = x, \ |-x| = x$
  - Equations
    - $|ax + b| = k$
      - Solve $ax + b = k$ & $ax + b = -k$
    - $|ax + b| = cx + d$
      - Solve $ax + b = cx + d$ & $ax + b = -(cx + d)$
  - Graph
    - Draw the graph of $y = |x|$
    - Any parts of the graph below the x axis are reflected in the x-axis

Eg. $f(x) = 2x - 1, \ g(x) = x^2 + 5$

a. Find gh(x)   b. Find gh(2)   c. Find $f^2(x)$
= g(2x - 1) $= 4(2)^2 - 4(2) + 6$ $= f(2x - 1)$
$= (2x - 1)^2 + 5$ = 14 $= 2(2x - 1) - 1$
$= 4x^2 - 4x + 6$ $= 4x - 3$

- Inverse functions
  - Inverse of $f(x)$ is $f^{-1}(x)$
    - Only exists if $f(x)$ is one–one mapping
  - Domain of f^{-1} = range of $f(x)$
  - Range of $f^{-1}(x)$ = domain of $f(x)$
  - Finding inverse
    - Write function as $y =$
    - Interchange the x & y variables
    - Rearrange to make y the subject
  - Graph
    - $f(-x)$: reflection in the y-axis
    - $-f(x)$: reflection in the x-axis
    - $f(x) + a$: translation of a units parallel to y-axis
    - $f(x + a)$: translation of $-a$ units parallel to x-axis

Eg. $f(x) = 2x + 3$
a. Find an expression for $f^{-1}(x)$
$y = 2x + 3$
$x = 2y + 3$
$2y = x - 3$
$y = \frac{x-3}{2}$
Thus, $f^{-1}(x) = \frac{x-3}{2}$

2. Quadratic functions

- $a > 0$ (u shaped) = minimum point
- $a < 0$ (n shaped) = maximum point
- Find vertex using completing the square
  - $(x - 1)^2 + 2 \rightarrow$ vertex point (1,2)
- Find y intercept: sub $x = 0$
- Find x intercept: factorise/quadratic formula

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