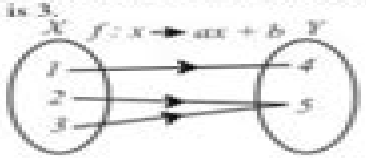
BRIEF NOTES
ADDITIONAL MATHEMATICS
FORM 4

CHAPTER 1: FUNCTION

1. $f : x \to x + 3$
   x is the object, $x + 3$ is the image

   $f : x \to x + 3$ can be written as
   $f(x) = x + 3$.
   To find the image for 2 means
   $f(2) = 2 + 3 = 5$
   Image for 2 is 5.
   Find the object for 8 means $f(x) = 8$ what is the value of x ?
   $x + 3 = 8$; $x = 5$
   The object is 5.
   If the function is written in the form of ordered pairs (x, y) , x is the object and y is the image.
   E.g. (2, 4), (2, 6), (3, 7)
   Image for 2 is 4 and 6 whereas object for 7 is 3.



   In the arrow diagram, the set of object is {1, 2, 3} and the set of image is {4, 5}

2. For $f : x \to \dfrac{5}{x-3}$, $x - 3 \neq 0$, i.e. $x \neq 3$

   because $\dfrac{5}{0}$ is undefined.

   Thus, if $f : x \to \dfrac{5}{x-3}$, $x \neq k$ then k is 3.

3. Function which maps into itself means $f(x) = x$

   If $f : x \to \dfrac{3}{x-2}$, find the value of x which is mapped into itself.

   $\dfrac{3}{x-2} = x$
   $3 = x(x - 2) = x^2 - 2x$
   Thus, $x^2 - 2x - 3 = 0$
   $(x - 3)(x + 1) = 0$
   $x = 3$ or -1

3. Inverse Function

   Symbol : f^{-1}
   To find the inverse function, change $f(x)$ to y and find x in terms of y.

   Given $f : x \to \dfrac{x}{3-x}$, find f^{-1}

   Let $f(x) = y$

   $y = \dfrac{x}{3-x}$ $\qquad y(3 - x) = x$
   $3y - xy = x$
   $3y = x + xy$
   $= x(1 + y)$
   $x = \dfrac{3y}{1+y}$, thus $f^{-1}(x) = \dfrac{3x}{1+x}$

4. Composite Function
   Given $f : x \to 3x - 4$ and $g : x \to 2 - 3x$, find
   (a) $fg(x)$
   (b) $gf(x)$
   (c) $f^2(3)$
   (d) $gf^{-1}(4)$

   (a) $fg(x) = f(2 - 3x) = 3(2 - 3x) - 4$
   $= 6 - 9x - 4 = 2 - 9x$
   (b) $gf(x) = g(3x - 4) = 2 - 3(3x - 4)$
   $= 2 - 9x + 12 = 14 - 9x$
   (c) $f^2(3) = ff(3) = f(9 - 4) = f(5)$
   $= 15 - 4 = 11$.
   (d) Let $y = 3x - 4$, $x = \dfrac{y+4}{3}$

   Thus $f^{-1}(4) = \dfrac{8}{3}$

   $gf^{-1}(4) = g(\dfrac{8}{3}) = 2 - 3 \times \dfrac{8}{3} = -6$

5. To find $f(x)$ or $g(x)$ given the composite function.
   Given $f(x) = 2x + 8$ and $fg(x) = 6x + 12$, find $g(x)$.
   $f(x) = 2x + 8$
   $f[g(x)] = 2g(x) + 8$
   $= 6x + 12$
   $2g(x) = 6x + 12 - 8$
   $= 6x + 4$
   $g(x) = 3x + 2$

Given $f(x) = 3x - 5$ and $gf(x) = 9x^2 - 30x + 30$, find $g(x)$

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