BRIEF NOTES
ADDITIONAL MATHEMATICS
FORM 4

CHAPTER 1: FUNCTION

1. $f : x \rightarrow x + 3$

   x is the object, $x + 3$ is the image

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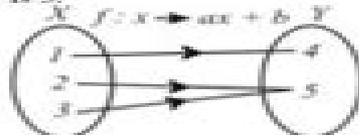   Find the object for 8 means $f(x) = 8$ what is the value of x ?
   $x + 3 = 8$; $x = 5$
   The object is 5.
   If the function is written in the form of ordered pairs (x, y) , x is the object and y is the image.
   E.g. (2, 4), (2, 6), (3, 7)
   Image for 2 is 4 and 6 whereas object for 7 is 3.

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

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

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

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

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

   If $f : x \rightarrow \dfrac{3}{x - 2}$, 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 $f : x \rightarrow \dfrac{x}{3 - x}$, find f^{-1}

Let $f(x) = y$

$y = \dfrac{x}{3 - x}$ $y(3 - x) = x$

$3y - xy = x$
$3y = x + xy$
$\quad = x(1 + y)$

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

4. Composite Function
   Given $f : x \rightarrow 3x - 4$ and $g : x \rightarrow 2 - 3x$, 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) $f^2(3) = f f(3) = f(9 - 4) = f(5)$
       $= 15 - 4 = 11$.

   (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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web davide ghazal 8 years ago you had to find the heat since the work is positive work done on the system and you know that the change in internal energy is negative the average kinetic energy of the gas molecules is lower than it previously was then you are expected to get a negative q heat lost comment 3 votes upvote downvote

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web question 1 what is true of isothermal process a Δt 0 b Δu 0 c Δq Δw d pv constants solution in an isothermal process temperature remains constant Δt 0 since internal energy depends on the temperature Δu 0 from first law of thermodynamics Δu Δq Δw since Δu 0 Δq Δw also pv nrt as t is constant pv