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FUNCTION WORKSHEETS

1) The value of the function $f(x) = 7x + 4$. For $x = 2$, the value of $f(x) = \underline{\hspace{2cm}}$.

2) Write a function $f(x)$ whose output is the sum of the square of the input and twice of the input. Also, find the value of $f(5)$.



3) Given the length of the rectangle is 4 units. Find the area function $A(b)$ of the rectangle in terms of breadth (b). Find the area of the rectangle for $b = 5$ units.

4) Find the volume function $V(x)$ of the cube if the length of the cube is x units. Also, find the value of $V(3)$.

5) Identify whether the following function is linear or non-linear from the table.

X	1	2	3	4	5
Y	4	5	5	2	1

- (a) Linear (b) non-linear

6) The functions $g(x)$ and $h(x)$ are shown in the table below against input values (x).

x	1	3	4	7	10
$g(x)$	3	1	4	9	-3
$h(x)$	-2	1	-5	8	-3

Are there any solutions (outputs) common to both $g(x)$ and $h(x)$ as per this table? If yes, then find all x for which the solutions are common.

7) Given that $f(x) = 7x + 28$. Find the value of x for which $f(x) = 0$.

- (a) 1 (b) -2 (c) 4 (d) -4

8) $f(x)$ is a quadratic function whose roots are 2 and 4. Find $f(x)$ and also find the value of $f(1)$.

9) Given the fibonacci function $f(x) = f(x - 1) + f(x - 2)$ for $x > 2$. Given that $f(2) = f(3) = 1$. Find the value of $f(4)$.

10) Given that $y = 2x + 3$. Find x in terms of y . Then, find the value of x for $y = 5$.

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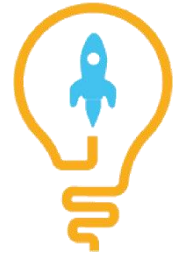
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**ANSWERS**

1)	18
2)	$f(x) = x^2 + 2x,$ $f(5) = 35$
3)	$A(b) = 4b,$ $A(5) = 20 \text{ units}^2$
4)	$V(x) = x^3,$ $V(3) = 27 \text{ units}^3$
5)	(b) non-linear.
6)	Yes, $x = 3$ and $x = 10$

7)	(d) -4
8)	$f(x) = (x - 2)(x - 4), f(1) = 3$
9)	$f(4) = 2$
10)	$x = (y-3)/2,$ for $y=5, x = 1$

FUN FACT

1. Any mathematical equation can be represented as a function. All the trigonometric ratio and logarithmic equations can be represented as a function.
2. Domain is the input value of the function, and range is the resultant or the output value of the function.
3. Functions are the mathematical rules which relates the variables x and y .

