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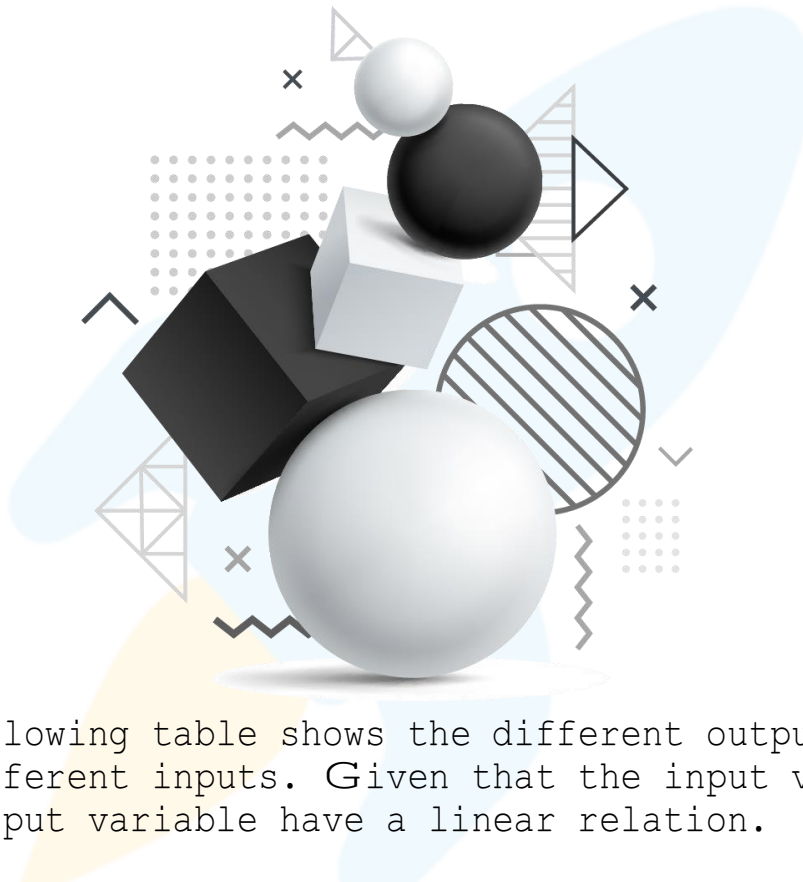
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## FUNCTION WORKSHEETS

- 1) Find  $f(3)$  if the function  $f(x) = 3x + 5$ .
- 2) Find  $f(4)$  if the function  $f(x) = (x - 1)(x - 2)(x - 3)$ .  
(a) 2      (b) 4      (c) 6      (d) 8
- 3) The function  $f(x) = 3 + 2x$ . For  $x = 3$ ,  $f(x) =$  \_\_\_\_\_.



- 4) The following table shows the different outputs against different inputs. Given that the input variable and the output variable have a linear relation.

|          |   |    |    |    |    |
|----------|---|----|----|----|----|
| <b>x</b> | 1 | 5  | 9  | 11 | 4  |
| <b>y</b> | 8 | 32 | 56 | 68 | 26 |

- (a) Find the function  $f(x)$  describing the input and the output.
  - (b) Using this function, find the value of  $f(10)$ .
- 5) Write a function  $f(x)$  whose output is the sum of the cube of the input and the input. Also, find the value of  $f(4)$ .

6) Given the length of the base is 4 units. Find the area function  $A(h)$  of the triangle in terms of height  $(h)$ . Find the area of the triangle for  $h = 5$  units.

7) Find the  $V(10)$  of an object if  $V(x) = 2x^2 + 3x$  where  $x$  is one of the parameters of the object.

(a) 200            (b) 230            (c) 250            (d) 280

8) Given the function  $f(x) = f(x - 1) + f(x - 2)$  for  $x > 2$ . Given that  $f(1) = f(2) = 1$ . The value of  $f(3) =$

\_\_\_\_\_.

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

10) Given functions  $g(x) = 2x + 3$  and  $h(x) = x + 1$ . If  $f(x) = g(h(x))$ , find the function  $f(x)$ . Also find the value of  $f(x) - g(x)$ .

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- Gary Schwartz

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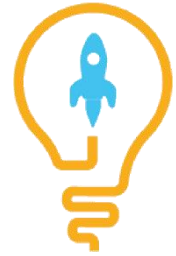
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

|    |  |
|----|--|
| 1) | 14                                       |
| 2) | (c) 6                                    |
| 3) | 9  |
| 4) | $f(x) = 6x + 2$<br>$f(10) = 62$          |
| 5) | $f(x) = x^3 + x,$<br>$f(4) = 68$         |
| 6) | $A(h) = 2h,$<br>$A(5) = 10$ square units |

|     |                                       |
|-----|---------------------------------------|
| 7)  | (b) 230                               |
| 8)  | 2                                     |
| 9)  | $x = y - 5,$<br>for $y=5, x = 0$      |
| 10) | $f(x) = 2x + 5,$<br>$f(x) - g(x) = 2$ |

## FUN FACT

1. Any mathematical equation can be represented as a function. All the trigonometric ratios 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. Function defines the mathematical rules of relating the variables  $x$  and  $y$ .

