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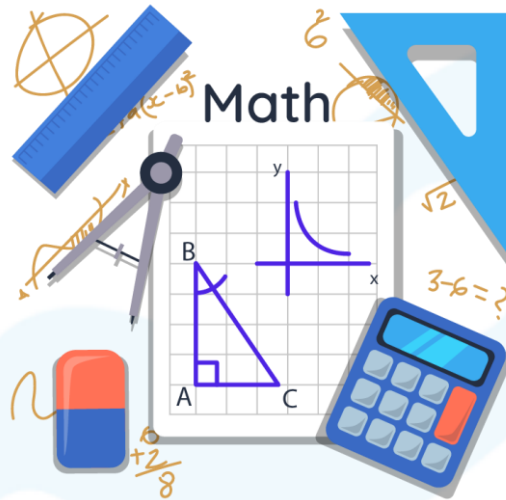
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FUNCTION WORKSHEETS

- 1) The function $f(x) = 8x$, then $f(0) = \underline{\hspace{2cm}}$.
- 2) Find $f(4)$ if the function $f(x) = (2x)(2x - 2)(2x - 4)$.
- 3) Find the value of the function $f(x) = x + 32x$ when $x = 3$.
 (a) 95 (b) 99 (c) 105 (d) 110



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

X	1	2	4	11	24
f(x)	2	4	8	22	48

- (a) Find the function $f(x)$ describing the input and the output.
 - (b) Using this function, find the value of $f(7)$.
- 5) Write a function $f(x)$ whose output is the sum of the one third of the input and square root of the input. Also, find the value of $f(9)$.
 - 6) Given the base of the parallelogram is 8 units. Find the area function $A(h)$ of the triangle in terms of height (h) . Find the area of the parallelogram for $h = 2$ units.

7) $f(x)$ is a cubic function whose roots are 2, 4 and 6. Find $f(x)$ and also find the value of $f(8)$.

8) Given the function $f(x) = f(x - 1) + f(x - 2)$ for $x > 2$. Given that $f(1) = f(2) = 1$. Find the value of $f(5)$.
(a) 4 (b) 6 (c) 8 (d) 10

9) Find the function $f(x)$ if $f(x) = g(x)^2 + h(x)^2 + 2g(x)h(x)$. Given $g(x) = x + 1$ and $h(x) = x - 1$.

10) Find the function $f(x)$ if $f(x) = g(x)^2 + h(x)$. Given $g(x) = x + 1$ and $h(x) = 2x + 1$. Also find $f(10) - f(2)$.

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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)	0
2)	192
3)	(b) 99
4)	$f(x) = 7$ $f(7) = 14$
5)	$f(x) = x/3 + \sqrt{x}$, $f(9) = 6$
6)	$A(h) = 8h$, $A(2) = 16$ square units

7)	$f(x) = (x - 2)(x - 4)(x - 6)$ $f(8) = 48$
8)	(c) 8
9)	$f(x) = 3x^2 + 1$
10)	$F(x) = 2(x^2 + 1),$ $f(10) - f(2) = 192$

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 .

