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For Grades 1 - 10



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## Function Worksheets 8th Grade

- 1) Find  $f(10)$  if the function  $f(x) = x + 7$ .
- 2) Find  $f(4)$  if the function  $f(x) = 4x^3 + 2x^2 + 3x + 1$
- 3) Find the value of the function  $f(x) = \frac{3}{2x+1}$  when  $x = 3$ .
- 4) Write a function  $f(x)$  whose output is the sum of the 2 raised to the input and square of the input. Also, find the value of  $f(3)$ .
- 5) Given that  $f(x) = 5x + 25$ . Find the value of  $x$  for which  $f(x) = 0$ .
- 6)  $f(x)$  is a quadratic function whose roots are 4 and 8. Find  $f(x)$  and also find the value of  $f(2)$ .
- 7) Given the function  $f(x) = f(x - 1) + f(x - 3)$  for  $x > 1$ . Given that  $f(0) = f(1) = f(3) = 1$ . Find the value of  $f(4)$ .
- 8) Find the function  $f(x)$  if  $f(x) = g(x)^2 + h(x)^2$ . Given  $g(x) = 2x$  and  $h(x) = 3x$ .
- 9) Find the function  $f(g(x))$  if  $f(x) = x^2 + 2x$ . Given  $g(x) = x + 1$ . Also find  $f(g(2)) - f(2)$ .
- 10) Find the value of  $f(3)$  if  $f(t) = \sqrt{16 + t^2}$ .

When you learn math  
in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- 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) $f(3) = 14$	2) $f(4) = 6$	3) $f(3) = 2$
4) $f(x) = 6x + 2$ $f(10) = 62$	5) $f(x) = x^3 + x$ , $f(4) = 66$	6) $A(h) = 2h$ , $A(5) = 10 \text{ units}^2$
7) $V(10) = 230 \text{ units}^3$	8) $s(2) = 29 \text{ km}$	9) $f(x)$ is not linear.
10) 5		

## FUN FACT

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

