

FUNCTIONS I: Finding Function ValuesName _____
Date _____ Block _____Given $f(x) = 3x + 2$, find:

1. $f(-2)$

2. $f\left(\frac{1}{2}\right)$

3. $f(2,000)$

4. $f(k)$

5. $f(2a)$

Given $g(x) = x^2 - 1$, find:

6. $g(-3)$

7. $g\left(\frac{3}{4}\right)$

8. $g(3b)$

Given $f(x) = \begin{cases} x^2 & \text{if } x > 3 \\ 2x+1 & \text{if } x \leq 3 \end{cases}$, find:

9. $f(4)$

10. $f(2)$

11. $f\left(\frac{1}{2}\right)$

12. $f\left(\frac{13}{4}\right)$

Given $F(x) = 2^{x+3}$, find:

13. $F(1)$

14. $F(-5)$

15. $F(\pi)$

16. $F(k+2)$

Given $h(x) = \frac{1}{x}$, find:

17. $h\left(\frac{1}{2}\right)$

18. $h(-3)$

19. $h(.3)$

The function $[x]$ is defined as the greatest integer not exceeding x . It is sometimes called the "rounding down function."

Given $g(x) = [x]$, find:

20. $g\left(\frac{5}{4}\right)$

21. $g(1.99)$

22. $g\left(-2\frac{1}{2}\right)$

23. $g(200)$

FUNCTIONS II: Finding Function Values

Name _____

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Given $F(x) = 2^{x+3}$, find:

1. $F(x-1)$

2. $F(x^2+4)$

Given $h(x) = 2x^2 + x - 4$, find:

3. $h(x^2)$

4. $h(x+1)$

5. $h(2^x)$

6. $h\left(\frac{1}{x}\right)$

Given $f(x) = 3x + 2$ and $g(x) = x^2 - 1$, find:

7. $f(2x-5)$

8. $g(2x-5)$

9. $f(x^2)$

10. $g(x^2)$

11. $f(2^x)$

12. $g(2^x)$

13. $f(g(2))$

14. $g(f(2))$

15. $f(g(k))$

16. $g(f(2a))$

17. $f(g(x))$

18. $g(f(x))$