

Functions Notation Worksheet

1. If $f(x) = \sqrt{x}$, find:

a) $y = f(0)$

b) $y = f(-1)$

c) $y = f(4)$

d) $y = f(-4)$

e) $y = f(z)$

2. If $f(x) = x^3$, find:

a) $f(2x)$

b) $f(2x) + 1$

c) $f(2x + 1)$

d) $y = f(2x)$

e) $y = f(2x) + 1$

f) $y = f(2x + 1)$

g) $y = f(2x+1)+4$

3. If $f(x) = \sqrt{x^2 + 2} - 2$
and $g(x) = 2x - 1$, find:

a) $f(0)$

b) $g(1)$

c) $f(x+1)$

d) $g(x^2 - 2)$

e) $f(g(x))$

f) $g(f(x))$

g) $f(g(-1))$

h) $g(f(x-1))$