

Cubic and Cube Root Functions

Name: _____

Evaluate the following functions for the indicated values.

Given: $f(x) = 2(x - 2)^3 + 1$

$$g(x) = -3\sqrt[3]{3x + 1} - 3$$

$$h(x) = \frac{\sqrt[3]{4-2x}}{(x-3)^3}$$

1) $f(5)$

2) $h(6)$

3) $g(21)$

4) $f(-2)$

5) $g(x) = 6$

6) $h(2)$

Given: $f(x) = 2(x - 2)^3 + 1$

$$g(x) = -3\sqrt[3]{3x + 1} - 3$$

$$h(x) = \frac{\sqrt[3]{4-2x}}{(x-3)^3}$$

7) $f(x) = 17$

8) $g(2 - 3x)$

9) $h(5x)$

10) $f(2.6)$

11) $h(-7.5)$

12) $f(x) = -22$