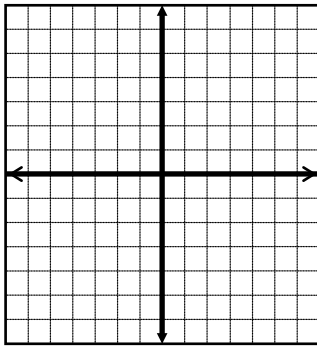


Transformations of Functions

Transforming Functions: Graph each function using its parent function and a transformation WITHOUT using a table of values. Identify the intercepts (rounded to the nearest tenth) and the domain and range.

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

2) $f(x) = 1 + 2\sqrt{x}$

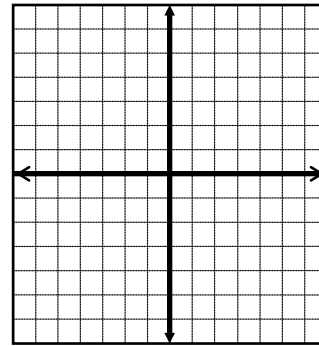


Domain:

Range:

x-intercept(s):

y-intercept:



Domain:

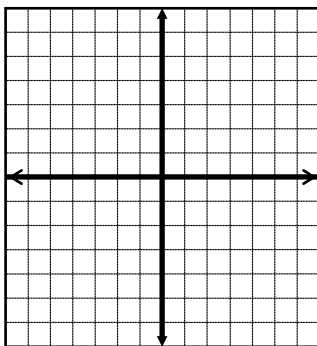
Range:

x-intercept(s):

y-intercept:

3) $f(x) = \sqrt[3]{2x} - 2$

4) $g(x) = -1 + \log_3(x+1)$

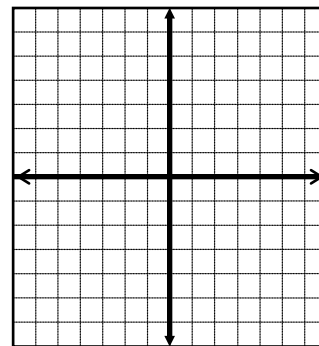


Domain:

Range:

x-intercept(s):

y-intercept:



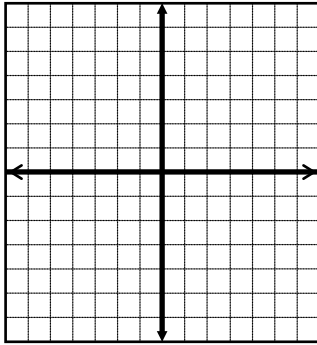
Domain:

Range:

x-intercept(s):

y-intercept:

5) $f(x) = \frac{1}{x+2} - 1$



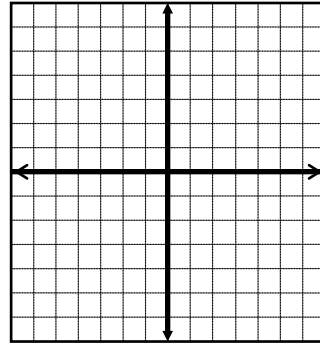
Domain:

Range:

x-intercept(s):

y-intercept:

6) $g(x) = -\ln(x-2)$



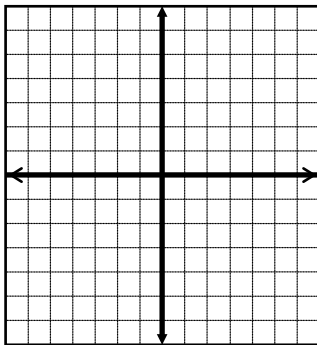
Domain:

Range:

x-intercept(s):

y-intercept:

7) $g(x) = 3 - 2^{(x-1)}$



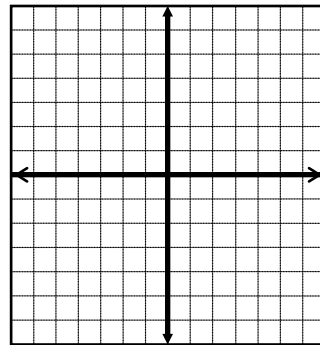
Domain:

Range:

x-intercept(s):

y-intercept:

8) $f(x) = 2e^{x-1}$



Domain:

Range:

x-intercept(s):

y-intercept: