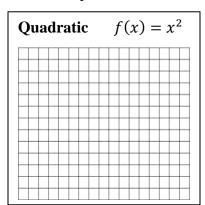
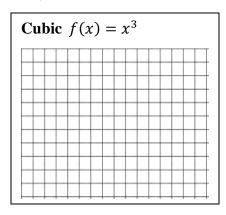
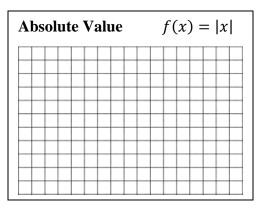
I. Six Functions to be Familiar With

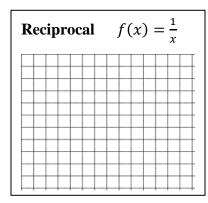
1. Graph each function below. (Write out a table of values if you need)

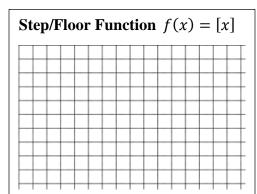






Square Root $f(x) = \sqrt{x}$





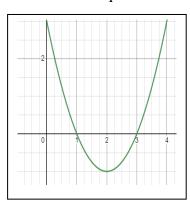
Notes on Transformations:

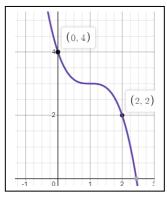
Translation Vectors

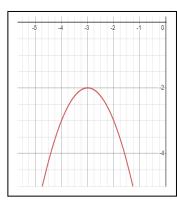
A general function with transformations:

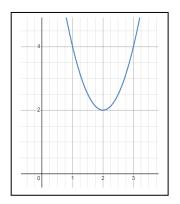
II. **Practice with Transformations**

2. Find the equations for each of the functions below.

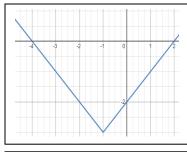


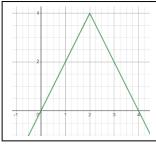


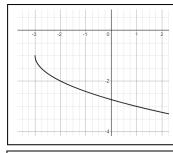


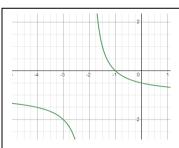


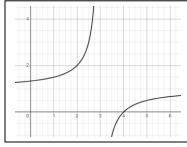
3. Match each of the functions below with the correct equations.

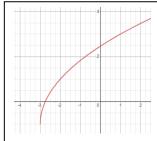


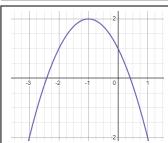


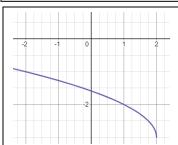












A.
$$f(x) = 4 - 2|x - 2|$$

B.
$$f(x) = \sqrt{-x+2} - 3$$

C.
$$f(x) = -\frac{1}{x-3} + 1$$

D. $f(x) = 2\sqrt{x+3} - 1$

D.
$$f(x) = 2\sqrt{x+3} - 1$$

E.
$$f(x) = |x + 1| - 3$$

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

G.
$$f(x) = 2 - (x+1)^2$$

H.
$$f(x) = -\sqrt{x+3} - 1$$