

PARENT FUNCTIONS & SHIFTS

I. Match the parent function to its graph.

a. $f(x) = |x|$

b. $j(x) = x^3$

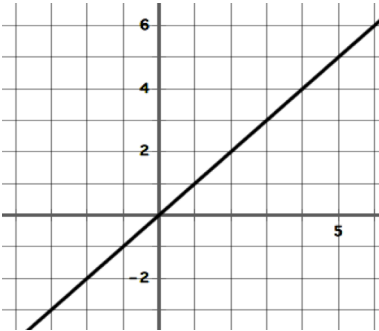
c. $g(x) = \sqrt{x}$

d. $m(x) = x$

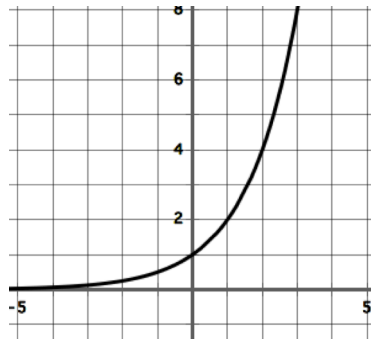
e. $h(x) = \sqrt[3]{x}$

f. $p(x) = x^2$

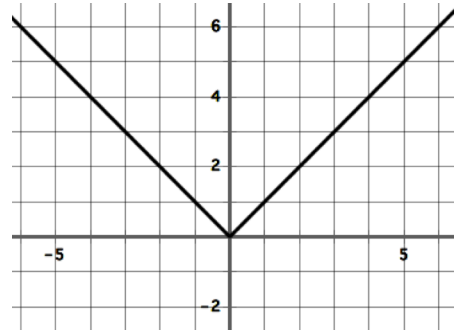
g. $k(x) = 2^x$



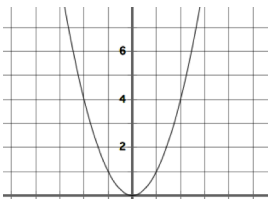
1. _____



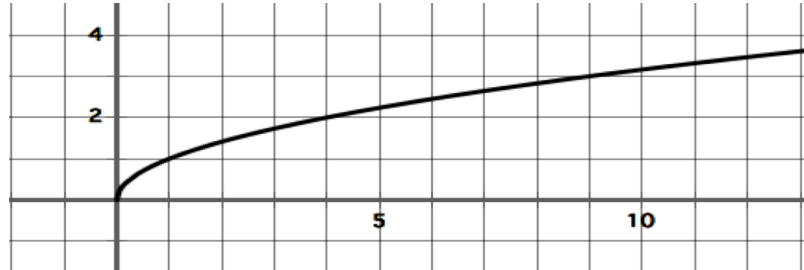
2. _____



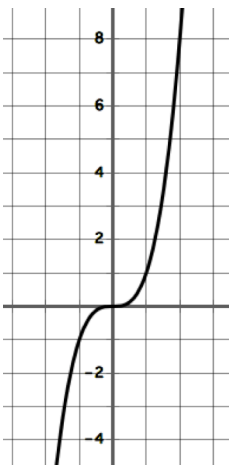
3. _____



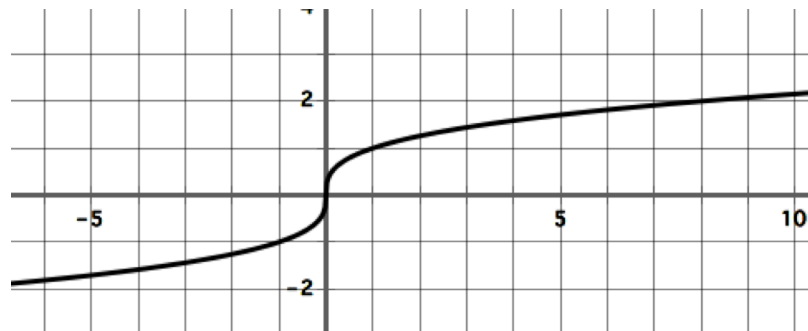
4. _____



5. _____



6. _____



7. _____

II. Match the quadratic function to its graph.

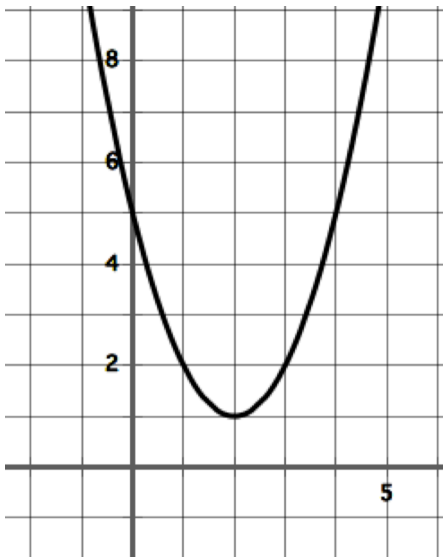
a. $f(x) = (x + 4)^2$

c. $h(x) = (x - 1)^2 + 2$

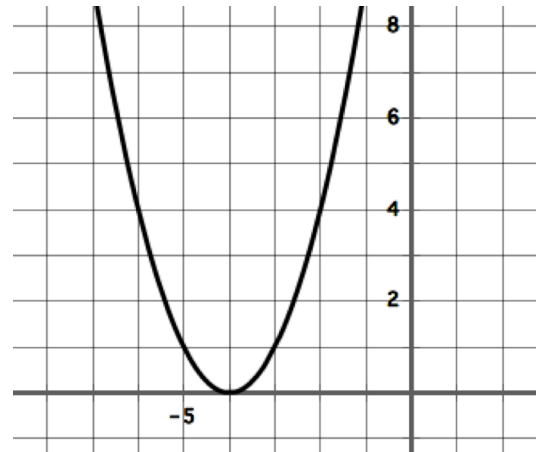
e. $k(x) = (x + 2)^2 + 1$

b. $g(x) = x^2 + 4$

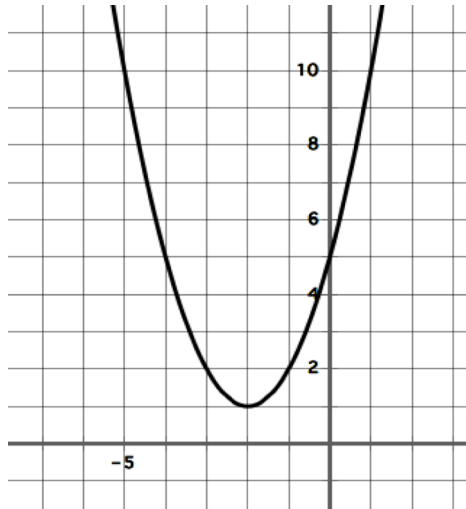
d. $j(x) = (x - 2)^2 + 1$



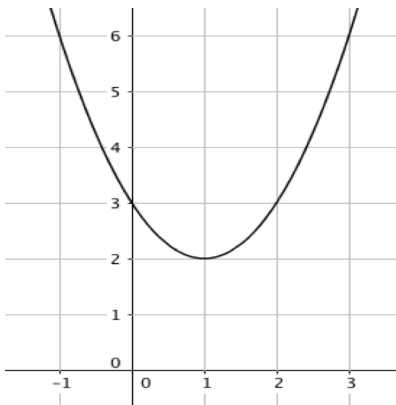
1. _____



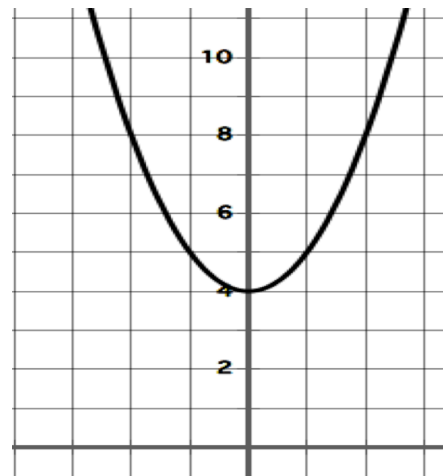
2. _____



3. _____



4. _____



5. _____

III. Match the square root function to its graph.

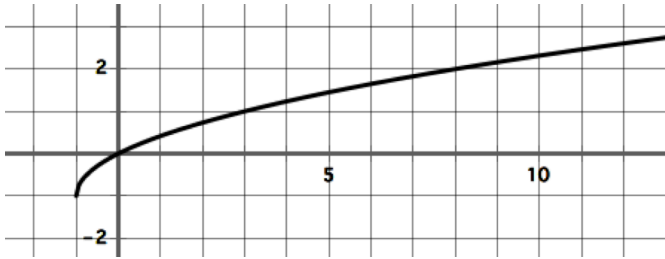
a. $f(x) = \sqrt{x+1} - 1$

c. $h(x) = \sqrt{x+2}$

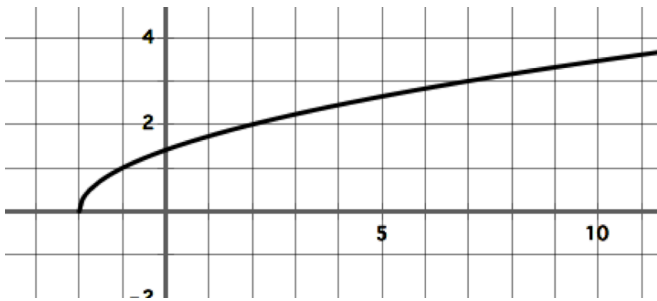
e. $m(x) = \sqrt{x-1} + 1$

b. $g(x) = \sqrt{x-2}$

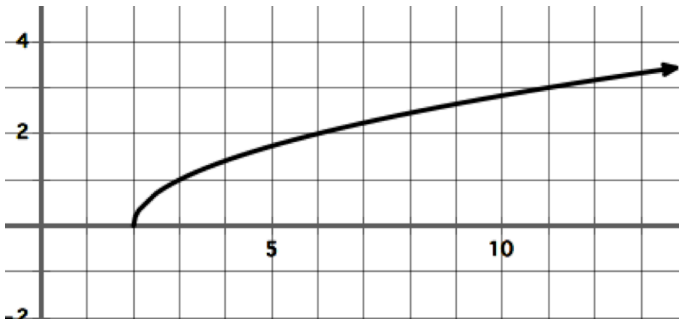
d. $k(x) = \sqrt{x} - 3$



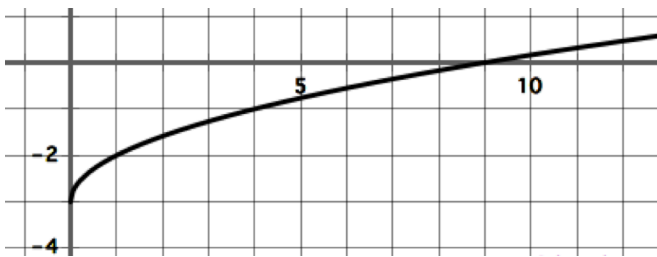
1. _____



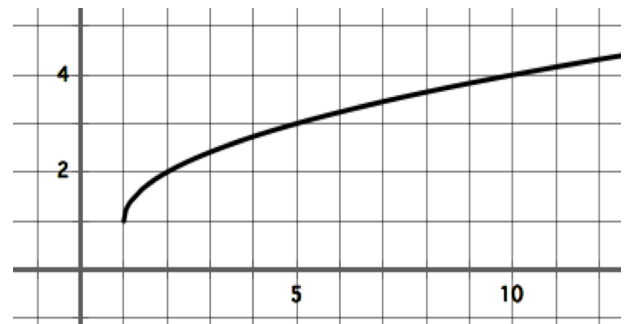
2. _____



3. _____



4. _____



5. _____

IV. Match the absolute value function to its graph.

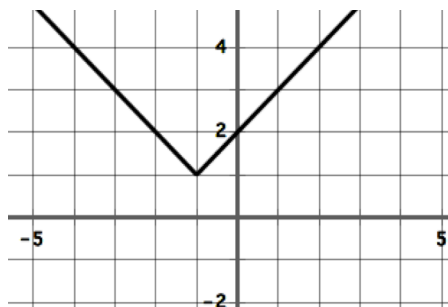
a. $f(x) = |x - 3|$

b. $g(x) = |x| - 2$

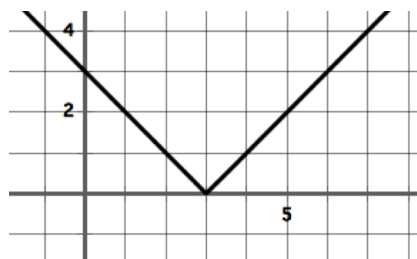
c. $h(x) = |x + 3|$

d. $j(x) = |x + 1| + 1$

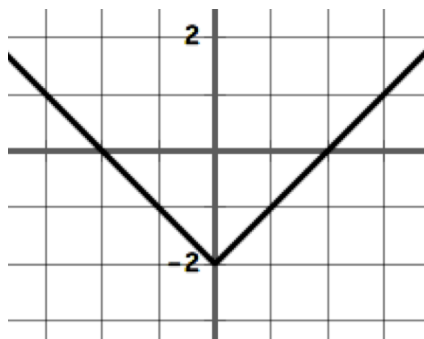
e. $k(x) = |x - 1| + 1$



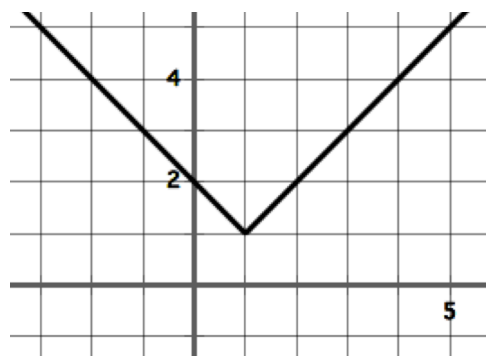
1. _____



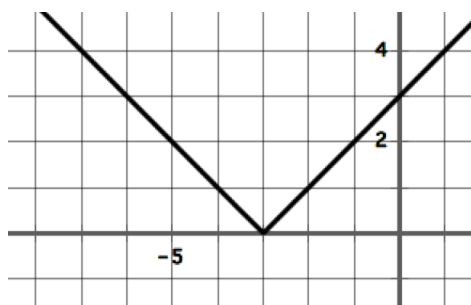
4. _____



2. _____



5. _____



3. _____