

For each problem, give the parent function, tell what a,b,h,k are, then describe the transformations using the proper vocabulary: stretch/shrink/reflection/translation/horizontal/vertical/#'s / R,L,U,D

8. Parent Fcn: $g(x) = \sqrt{x}$ $g(x) = .3\sqrt{x-4}$

a = 0.3 Vertical shrink of .3

b = 1 —

h = 4 Translation 4R

k = 0 —

9. Parent Fcn: $f(x) = \log x$ $f(x) = \log(x+2) - 1$

a = 1 —

b = 1 —

h = -2 Translation 2L

k = -1 Translation 1D

10. Parent Fcn: $h(x) = |x|$ $h(x) = -|x| + 3$

a = -1 Vertical reflection (or reflection over x-axis)

b = 1 —

h = 0 —

k = 3 Translation 3U

11. Parent Fcn: $g(x) = \sqrt[3]{x}$ $g(x) = \sqrt[3]{5x-8}$

a = 1 —

b = 5 Horizontal shrink of $\frac{1}{5}$

h = 0 —

k = -8 Translation 8D

12. Parent Fcn: $f(x) = x^2$ $f(x) = 3(x-5)^2$

a = 3 Vertical stretch of 3

b = 1 —

h = 5 Translation 5R

k = 0 —