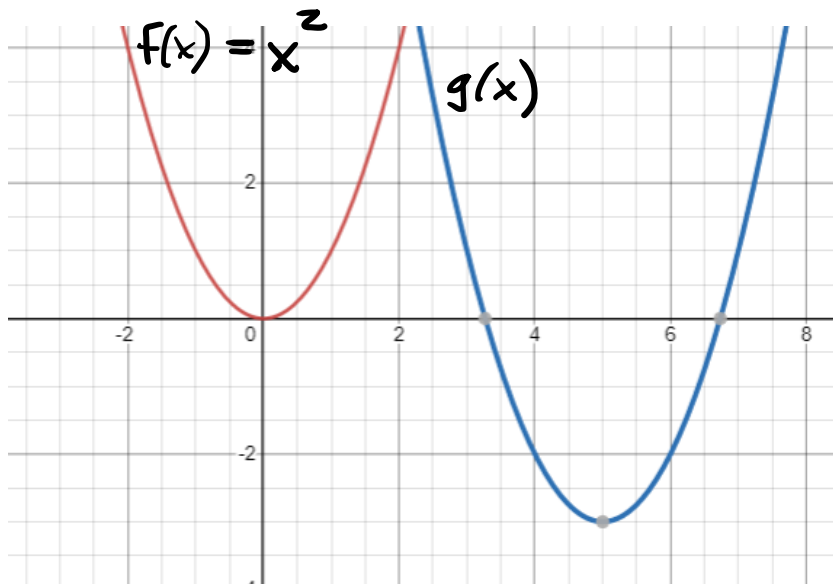


The Math Dawg: Exercises to Accompany “Horizontal and Vertical Function Translations Using $f(x)$ Notation”_1

1.



Write $g(x)$ as a translation of $f(x)$ two different ways. The second way should explicitly use the function notation for $f(x)$.

a. $g(x) =$

b. $g(x) =$

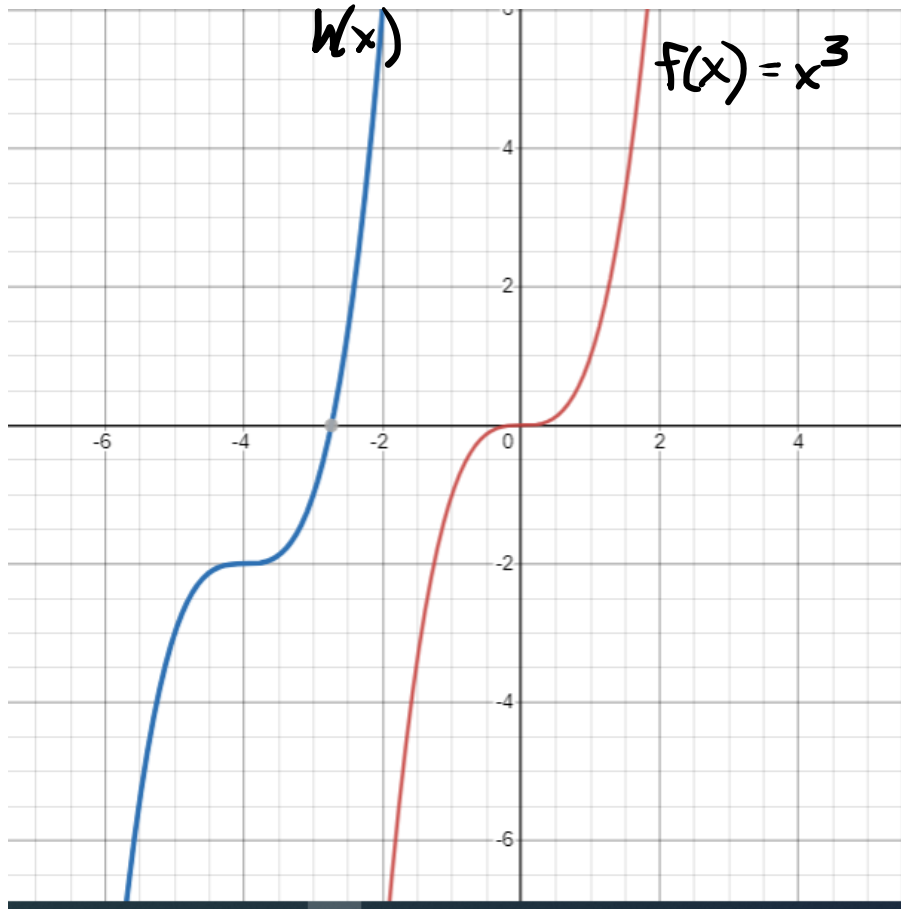
Give the domain and range for $g(x)$:

DOMAIN:

RANGE:

The Math Dawg: Exercises to Accompany “Horizontal and Vertical Function Translations Using $f(x)$ Notation”_1

2.



Write $h(x)$ as a translation of $g(x)$ two different ways. The second way should explicitly use the function notation for $g(x)$.

c. $h(x) =$

d. $h(x) =$

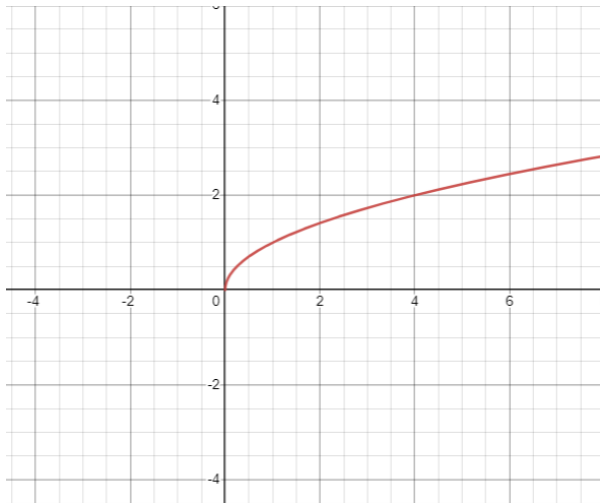
Give the domain and range for $h(x)$:

DOMAIN:

RANGE:

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3. Given the function $f(x) = \sqrt{x}$ sketch the function $g(x) = f(x - 5) - 2$ on the grid provided below.



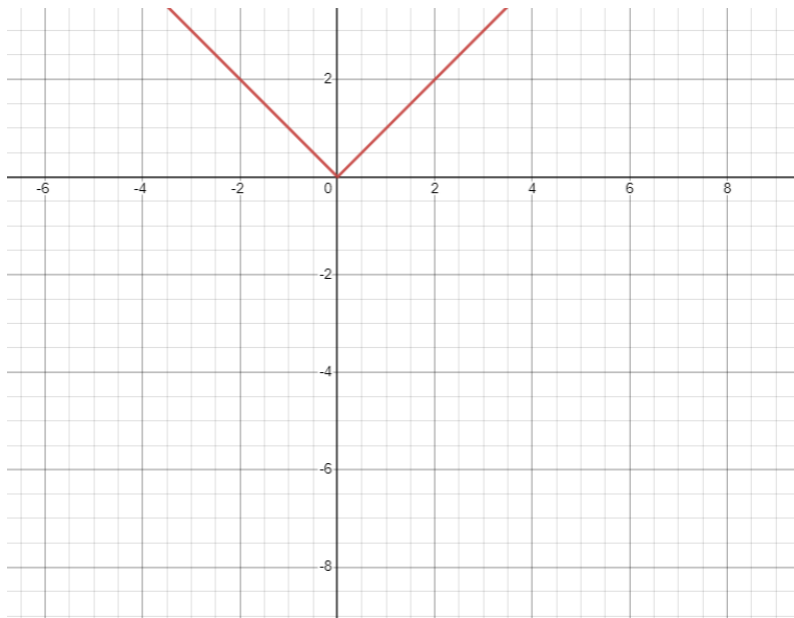
State the domain and range of g :

DOMAIN:

RANGE:

4. Given the function $f(x) = |x|$ sketch the function $r(x) = |x + 4| - 7$ on the grid below.

The Math Dawg: Exercises to Accompany “Horizontal and Vertical Function Translations Using $f(x)$ Notation”_1



State the domain and range of r .

DOMAIN:

RANGE: