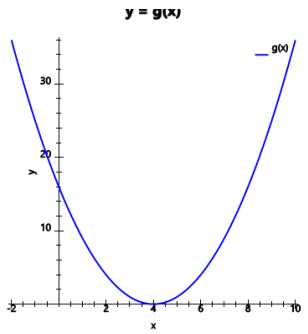
Name

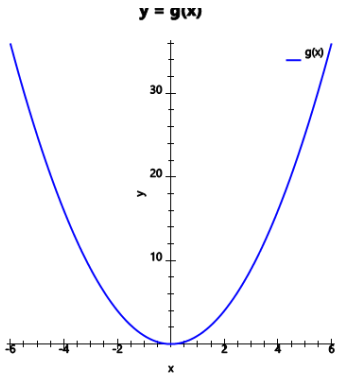
Function Transformations (Definition) - Single Transformation Graph to Definition

1 What transformation of f(x) does this graph show?



A	B	C
$f(x) = x^2$ Shift right: 4	$f(x) = x^2$ Shift left: 4	$f(x) = x^2$ Shift up: 4

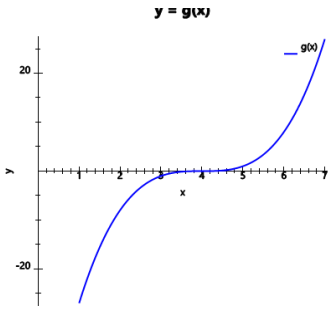
2



What transformation of f(x) does this graph show?

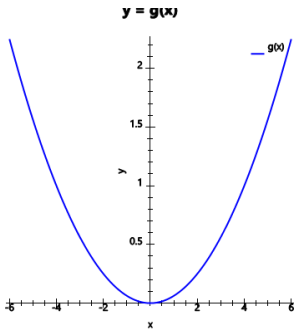
A	B
$f(x) = x^2$ Reflect in X-Axis	$f(x) = x^2$ Reflect in Y-Axis

3 What transformation of f(x) does this graph show?



A	B	C
$f(x) = x^3$ Shift left: 4	$f(x) = x^3$ Shift right: 4	$f(x) = x^3$ Shift up: 4

4 What transformation of f(x) does this graph show?

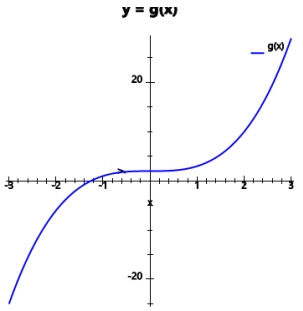


A $f(x) = x^2$ Horizontal stretch: 0.25

B $f(x) = x^2$ Vertical stretch: 0.25

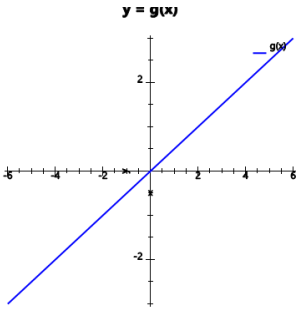
C $f(x) = x^2$ Horizontal compression: 0.25

5 What transformation of f(x) does this graph show?



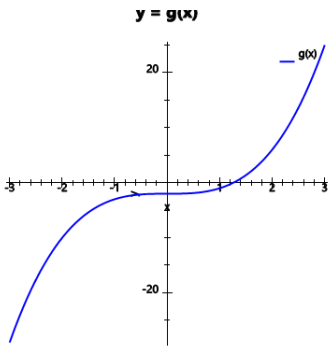
A	B	C
$f(x) = x^3$ Shift right: 2	$f(x) = x^3$ Shift down: 2	$f(x) = x^3$ Shift up: 2

6 What transformation of f(x) does this graph show?



A	B
$f(x) = x$ Vertical compression: 0.5	$f(x) = x$ Vertical stretch: 0.5
C $f(x) = x$ Horizontal compression: 0.5	

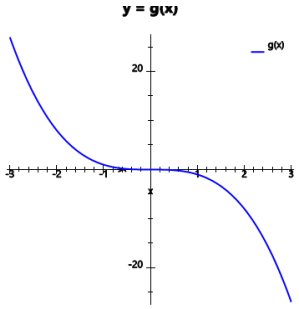
7



What transformation of f(x) does this graph show?

A	B
$f(x) = x^3$ Shift down: 2	$f(x) = x^3$ Shift up: 2

8 What transformation of f(x) does this graph show?



A	B
$f(x) = x^3$ Reflect in Y-Axis Reflect in X-Axis	$f(x) = x^3$
C $f(x) = x^3$ Reflect in X-Axis	