

A parent function

Other functions in the same family

A reflection

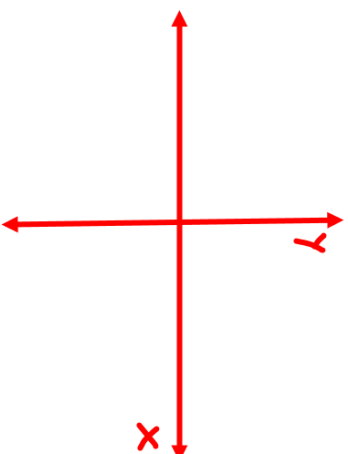
A vertical

A vertical shrink

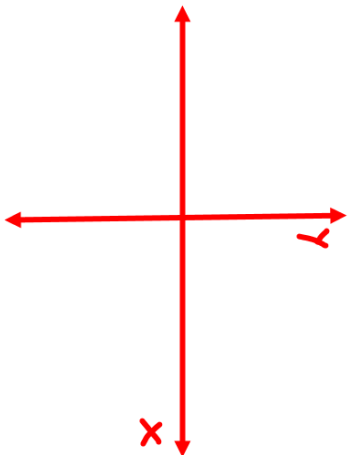
Transformations are

Translation is

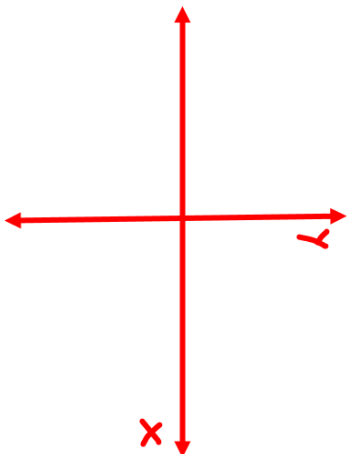
Constant Parent Function



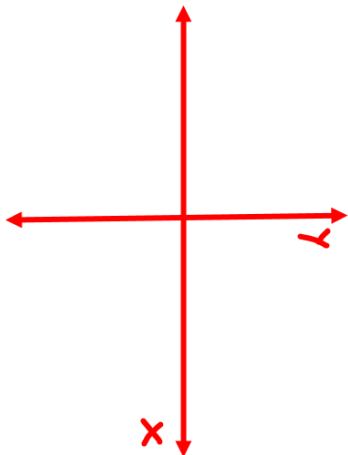
Linear Parent Function



Absolute Value Parent Function

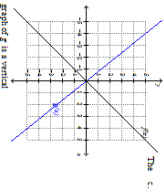


Quadratic Parent Function

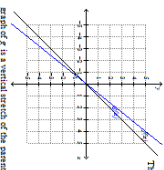


Graph the function and its parent function. Then describe the transformation.

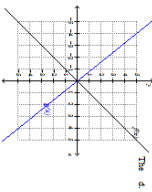
a. $g(x) = \frac{5}{4}x$



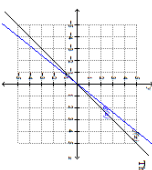
Graph of g is a vertical stretch and a reflection in the x-axis of the parent linear function.



Graph of g is a vertical stretch of the parent linear function.



Graph of g is a vertical stretch and a reflection in the x-axis of the parent linear function.

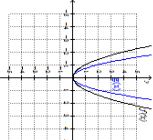


Graph of g is a vertical stretch of the parent linear function.

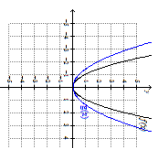
Graph the function and its parent function. Then describe the transformation.

$g(x) = \frac{1}{2}x^2$

a.



The c.



The d.

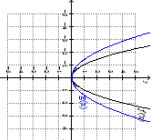


Graph of g is a vertical stretch of the parent quadratic function.

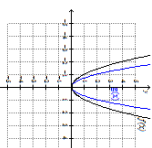
Graph of g is a vertical stretch of the parent quadratic function.

Graph of g is a vertical stretch of the parent quadratic function.

b.



The d.



The d.



Graph of g is a vertical stretch of the parent quadratic function.

Graph of g is a vertical stretch of the parent quadratic function.

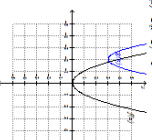
Graph of g is a vertical stretch of the parent quadratic function.

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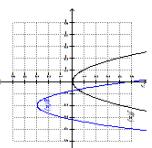
Graph the function and its parent function. Then describe the transformation.

$g(x) = 2(x-2)^2 - 3$

a.



The c.



The c.

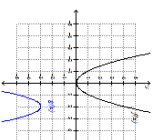


Graph of g is a translation 2 units right, 3 units down, and a translation 3 units up of the parent quadratic function.

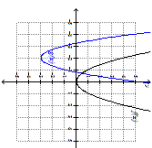
Graph of g is a translation 2 units right, 3 units down, and a translation 3 units down of the parent quadratic function.

Graph of g is a translation 2 units right, 3 units down, and a translation 3 units down of the parent quadratic function.

b.



The d.



The d.



Graph of g is a translation 2 units right, 3 units down, and a translation 3 units down of the parent quadratic function.

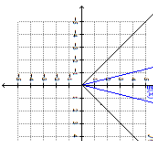
Graph of g is a translation 2 units right, 3 units down, and a translation 3 units down of the parent quadratic function.

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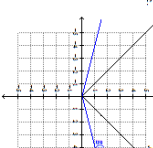
Graph the function and its parent function. Then describe the transformation.

$g(x) = 4|x|$

a.



The c.



The c.

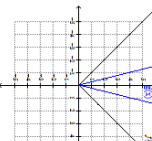


Graph of g is a vertical stretch of the parent absolute value function.

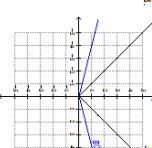
Graph of g is a vertical stretch of the parent absolute value function.

Graph of g is a vertical stretch of the parent absolute value function.

b.



The d.



The d.



Graph of g is a vertical stretch of the parent absolute value function.

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The table shows the height y of a monster truck x seconds after jumping off a ramp. What type of function models the situation the best? Estimate the height of the truck after 1.75 seconds.

Time (seconds), x	Height (feet), y
0	8.1
0.5	9.5
1	10
1.5	9.5
2	8.1

- An absolute value function would model this scenario the best. After 1.75 seconds the truck is about 8.5 feet in the air.
- A quadratic function will model this scenario the best. After 1.75 seconds the truck is about 8.9 feet in the air.
- A linear function will model this scenario the best. After 1.75 seconds the truck is about 8.5 feet in the air.
- A linear function will model this scenario the best. After 1.75 seconds the truck is about 8.9 feet in the air.