

Precalculus Honors: Transformations, Optimization, and Secant Lines Review

A **transformation** is the change of the position and shape of a parent function that can create other functions. Given a function $f(x)$ that is transformed into a function $g(x)$:

$$g(x) = af(b(x - c)) + d$$

Where a represents a **vertical stretch** by a factor of $|a|$ units if $|a| > 1$ or a **vertical compression** by a factor of $|a|$ units if $0 < |a| < 1$. If $a < 0$, then the graph of $f(x)$ is **reflected about the x-axis**.

Effects on the Graph	Vertical Stretch	Vertical Compression	Reflection about the x-axis
x	None	None	None
$f(x)$	Values get larger	Values get smaller	Becomes its opposite value.
Overall	Graph gets narrower	Graph gets wider	Flips upside down.

Where b represents a **horizontal stretch** by a factor of $|b|$ units if $0 < |b| < 1$ or a **horizontal compression** by a factor of $|b|$ units if $|b| > 1$. If $b < 0$, then the graph of $f(x)$ is **reflected about the y-axis**.

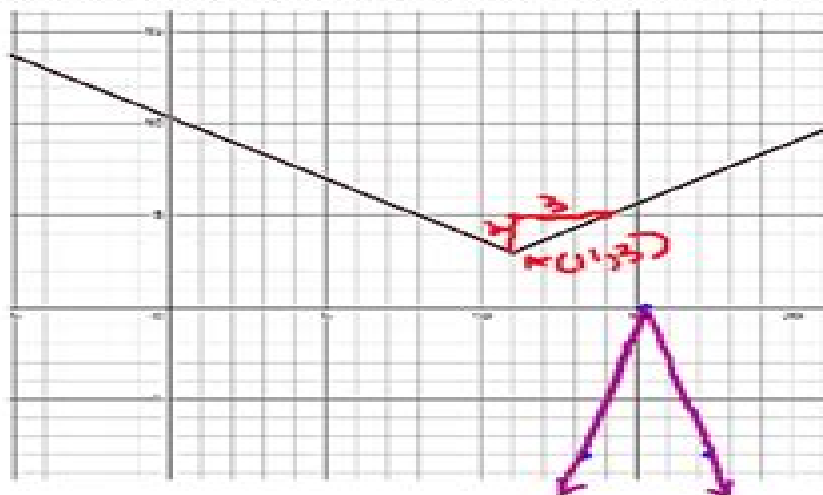
Effects on the Graph	Horizontal Stretch	Horizontal Compression	Reflection about the y-axis
x	Gets larger	Gets smaller	Becomes its opposite value.
$f(x)$	None	None	None
Overall	Graph gets wider	Graph gets narrower	Becomes its mirror image.

Where c represents a **horizontal translation** (or shift). If $c > 0$, the graph shifts c units to the right and if $c < 0$, it shifts c units to the left.

[Note: Some resources may describe any transformation of f into g as $g(x) = af(bx - c) + d$, which would make the horizontal translation represented by $\frac{c}{b}$ instead of c . If it describes the transformation of f into g as $g(x) = af(bx + c) + d$, then the horizontal translation is represented by $-\frac{c}{b}$ instead of c .]

Where d represents a **vertical translation** (or shift). If $d > 0$, the graph shifts d units up and if $d < 0$, it shifts d units down.

Example: Consider $f(x)$ below, which is an absolute value function in the form $f(x) = a|x - h| + k$



What is the equation of $f(x)$?

$$a = \frac{2}{3}$$

$$f(x) = \frac{2}{3}|x - 11| + 3$$

$$h = 11 \quad k = 3$$

Suppose $g(x)$ is result of transforming $f(x)$ in the following way:

- Horizontal shift eight units to the right. $c = 8$
- Horizontal compression by a factor of $\frac{3}{2}$ units. $b = \frac{3}{2}$
- Vertical stretch by a factor of four units. $|a| = 4$
- Vertical reflection about the x-axis. $a = -4$
- Vertical shift 12 units up. $d = 12$

Write the transformation that compares $f(x)$ and $g(x)$.

$$g(x) = a + f(b(x - c)) + d$$

$$g(x) = -4f\left(\frac{3}{2}(x - 8)\right) + 12$$

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