

GIVEN THE GRAPH OF $G(x)$, WHICH IS A TRANSFORMATION OF $F(x)=|x|$, WRITE THE EQUATION FOR $G(x)$. GRAPH: TRANSFORMATIONS

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WHEN ANALYZING THE GRAPH OF A TRANSFORMED ABSOLUTE VALUE FUNCTION, UNDERSTANDING THE VARIOUS TYPES OF TRANSFORMATIONS IS ESSENTIAL. THE PARENT FUNCTION, $f(x) = |x|$, IS A BASIC V-SHAPED GRAPH CENTERED AT THE ORIGIN. WHEN THIS GRAPH IS TRANSFORMED, IT CAN SHIFT HORIZONTALLY, VERTICALLY, STRETCH OR COMPRESS, OR REFLECT ACROSS AXES. THE GOAL OF THIS ARTICLE IS TO GUIDE YOU THROUGH THE PROCESS OF DETERMINING THE EQUATION OF $G(x)$, GIVEN ITS GRAPH, WHICH IS A TRANSFORMED VERSION OF $f(x) = |x|$, BY EXAMINING THE TRANSFORMATIONS INVOLVED.

UNDERSTANDING THE PARENT FUNCTION: $f(x) = |x|$

BEFORE DIVING INTO TRANSFORMATIONS, IT'S CRUCIAL TO GRASP THE KEY FEATURES OF THE PARENT FUNCTION:

- SHAPE: THE GRAPH OF $f(x) = |x|$ IS A V-SHAPED GRAPH WITH ITS VERTEX AT THE ORIGIN $(0,0)$.
- SYMMETRY: IT IS SYMMETRIC WITH RESPECT TO THE Y-AXIS.
- BREAK POINT: THE VERTEX AT $(0,0)$ WHERE THE TWO LINES MEET.
- LINES: CONSISTS OF TWO LINEAR PIECES:
 - FOR $x \geq 0$: $y = x$
 - FOR $x \leq 0$: $y = -x$

UNDERSTANDING THESE FEATURES HELPS TO IDENTIFY HOW TRANSFORMATIONS ALTER THE GRAPH.

TYPES OF TRANSFORMATIONS OF ABSOLUTE VALUE FUNCTIONS

TRANSFORMATIONS CAN BE CATEGORIZED INTO FOUR MAIN TYPES:

1. HORIZONTAL SHIFTS

- MOVING THE GRAPH LEFT OR RIGHT.
- REPRESENTED BY ADDING OR SUBTRACTING A VALUE INSIDE THE FUNCTION ARGUMENT: $f(x \pm h)$.
- EQUATION FORM: $G(x) = |x - h|$ SHIFTS THE GRAPH h UNITS TO THE RIGHT IF $h > 0$, AND TO THE LEFT IF $h < 0$.

2. VERTICAL SHIFTS

- MOVING THE GRAPH UP OR DOWN.
- ACHIEVED BY ADDING OR SUBTRACTING A CONSTANT OUTSIDE THE FUNCTION: $G(x) = |x| + k$.
- MOVES THE ENTIRE GRAPH k UNITS UPWARD IF $k > 0$, DOWNWARD IF $k < 0$.

3. VERTICAL STRETCHING AND COMPRESSION

- CHANGES THE STEEPNESS OF THE V'S ARMS.
- INVOLVES MULTIPLYING THE ABSOLUTE VALUE BY A FACTOR A : $G(x) = A|x|$.
- IF $|A| > 1$, THE GRAPH IS STRETCHED VERTICALLY (STEEPER).
- IF $0 < |A| < 1$, THE GRAPH IS COMPRESSED VERTICALLY (LESS STEEP).

4. REFLECTIONS

- FLIPPING THE GRAPH ACROSS AN AXIS.
- REFLECTION OVER THE X-AXIS: $G(x) = -|x|$.
- REFLECTION OVER THE Y-AXIS: $G(x) = |-x|$, WHICH IS IDENTICAL TO $|x|$ DUE TO SYMMETRY, BUT IN TRANSFORMATIONS INVOLVING OTHER FUNCTIONS, THE NEGATIVE INSIDE OR OUTSIDE CAN CAUSE REFLECTIONS.

STEP-BY-STEP PROCESS TO WRITE THE EQUATION FOR $G(x)$

GIVEN THE GRAPH OF $G(x)$, WHICH IS A TRANSFORMATION OF $f(x) = |x|$, FOLLOW THESE STEPS:

1. IDENTIFY KEY FEATURES OF $G(x)$

- DETERMINE THE VERTEX POINT (h, k) .
- OBSERVE THE SLOPES OF THE ARMS (ARE THEY STEEPER OR LESS STEEP THAN 1?).
- CHECK FOR ANY SHIFTS LEFT/RIGHT OR UP/DOWN.
- NOTE WHETHER THE GRAPH IS REFLECTED ACROSS AXES.

2. DETERMINE THE HORIZONTAL AND VERTICAL SHIFTS

- IF THE VERTEX IS AT (h, k) , THEN THE FUNCTION LIKELY INVOLVES $(x - h)$ AND $+k$.
- FOR EXAMPLE, IF THE VERTEX IS AT $(2, -3)$, THE HORIZONTAL SHIFT IS 2 UNITS TO THE RIGHT, AND VERTICAL SHIFT IS 3 UNITS DOWN.

3. ASSESS THE VERTICAL STRETCH OR COMPRESSION

- IF THE ARMS OF THE GRAPH ARE STEEPER THAN THE ORIGINAL $|x|$ GRAPH, THEN THE GRAPH HAS BEEN STRETCHED.
- LOOK FOR THE SLOPES OF THE ARMS; THE ORIGINAL HAS SLOPES OF ± 1 .
- FOR STEEPER ARMS, THE SLOPE MAGNITUDE IS INCREASED.

4. WRITE THE EQUATION INCORPORATING ALL TRANSFORMATIONS

- COMBINE THE IDENTIFIED TRANSFORMATIONS INTO THE GENERAL FORM.

GENERAL EQUATION FORMS FOR TRANSFORMED ABSOLUTE VALUE GRAPHS

BASED ON THE TRANSFORMATIONS, THE GENERAL FORM OF THE EQUATION CAN BE:

- HORIZONTAL SHIFT: $G(x) = |x - h| + k$
- VERTICAL STRETCH/COMPRESSION: $G(x) = a|x - h| + k$
- REFLECTION ACROSS AXES: $G(x) = a|x - h| + k$, WHERE a MAY BE NEGATIVE.
- COMBINATION: $G(x) = a|x - h| + k$

EXAMPLE: IF THE GRAPH IS SHIFTED 3 UNITS RIGHT, 2 UNITS UP, REFLECTED OVER THE X-AXIS, AND STRETCHED BY A FACTOR OF 2, THE EQUATION BECOMES:

$$G(x) = -2|x - 3| + 2$$

APPLYING THE PROCESS: SAMPLE SCENARIOS

LET'S CONSIDER SOME HYPOTHETICAL EXAMPLES TO ILLUSTRATE HOW TO DETERMINE $G(x)$:

EXAMPLE 1: VERTEX AT $(2, -3)$, ARMS STEEPER THAN $|x|$, WITH A VERTICAL SHIFT DOWNWARD

- THE VERTEX AT $(2, -3)$ INDICATES A HORIZONTAL SHIFT OF $+2$ AND A VERTICAL SHIFT OF -3 :
- $G(x) = |x - 2| - 3$
- THE STEEPER ARMS SUGGEST A VERTICAL STRETCH FACTOR $A > 1$:
- SUPPOSE THE SLOPE OF ARMS IS 2 , THEN:
- $G(x) = 2|x - 2| - 3$

EXAMPLE 2: VERTEX AT $(0, 0)$, REFLECTED OVER X-AXIS, COMPRESSED VERTICALLY

- REFLECTION OVER THE X-AXIS INTRODUCES A NEGATIVE SIGN:
- $G(x) = -|x|$
- IF THE ARMS ARE LESS STEEP (SLOPE OF 0.5), THEN:
- $G(x) = -0.5|x|$

VISUALIZING TRANSFORMATIONS ON THE GRAPH

UNDERSTANDING TRANSFORMATIONS VISUALLY AIDS IN CONFIRMING THE ALGEBRAIC FORM OF $G(x)$:

- HORIZONTAL SHIFTS: LOOK FOR THE VERTEX LOCATION RELATIVE TO THE ORIGIN.
- VERTICAL SHIFTS: OBSERVE IF THE LOWEST OR HIGHEST POINT OF THE V HAS MOVED.
- REFLECTIONS: CHECK IF THE GRAPH IS FLIPPED OVER AXES.
- STRETCH/COMPRESSION: ASSESS THE STEEPNESS OF THE ARMS COMPARED TO THE BASIC $|x|$ GRAPH.

PLOTTING THE PARENT FUNCTION ALONGSIDE THE TRANSFORMED GRAPH CAN HELP VERIFY YOUR EQUATION.

CONCLUSION: FROM GRAPH TO EQUATION

DETERMINING THE EQUATION OF A TRANSFORMED ABSOLUTE VALUE FUNCTION $G(x)$ FROM ITS GRAPH INVOLVES A SYSTEMATIC PROCESS:

1. IDENTIFY KEY FEATURES LIKE THE VERTEX.
2. RECOGNIZE SHIFTS HORIZONTALLY AND VERTICALLY.
3. DETECT ANY REFLECTIONS.
4. ASSESS THE STEEPNESS OF THE ARMS FOR STRETCH OR COMPRESSION.
5. COMBINE THESE INSIGHTS INTO THE STANDARD TRANSFORMATION FORM.

MASTERING THESE STEPS ALLOWS YOU TO ACCURATELY WRITE THE EQUATION FOR $G(x)$, GIVEN ITS GRAPH, AND UNDERSTAND THE NATURE OF THE TRANSFORMATIONS INVOLVED. WHETHER YOU'RE ANALYZING GRAPHS IN ALGEBRA OR PREPARING FOR CALCULUS, THESE SKILLS ARE FUNDAMENTAL TO INTERPRETING AND MANIPULATING ABSOLUTE VALUE FUNCTIONS EFFECTIVELY.

ADDITIONAL TIPS FOR SUCCESS

- ALWAYS START BY SKETCHING THE PARENT FUNCTION FOR COMPARISON.
- USE THE GRAPH TO ESTIMATE KEY POINTS AND SLOPES.
- REMEMBER THAT TRANSFORMATIONS CAN BE COMBINED; ANALYZE EACH STEP CAREFULLY.
- PRACTICE WITH VARIOUS GRAPHS TO BECOME PROFICIENT IN IDENTIFYING TRANSFORMATIONS AND WRITING EQUATIONS.

BY MASTERING THESE CONCEPTS, YOU WILL ENHANCE YOUR ABILITY TO ANALYZE AND WORK WITH TRANSFORMED ABSOLUTE VALUE FUNCTIONS CONFIDENTLY.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE GENERAL FORM OF THE TRANSFORMATION APPLIED TO THE GRAPH OF $f(x) = |x|$ TO OBTAIN $G(x)$?

THE TRANSFORMATION CAN INVOLVE SHIFTS, REFLECTIONS, STRETCHES, OR COMPRESSIONS, RESULTING IN A FORM LIKE $G(x) = A|B(x - h)| + k$, WHERE A , B , h , AND k ARE PARAMETERS REPRESENTING VERTICAL STRETCH/COMPRESSION, HORIZONTAL STRETCH/COMPRESSION, HORIZONTAL SHIFT, AND VERTICAL SHIFT, RESPECTIVELY.

HOW CAN I IDENTIFY THE TRANSFORMATIONS APPLIED TO $G(x)$ BASED ON ITS GRAPH COMPARED TO $f(x) = |x|$?

LOOK FOR CHANGES IN THE VERTEX POSITION (SHIFTS), THE SLOPE OF THE ARMS (STRETCH OR COMPRESSION), REFLECTIONS ACROSS AXES (NEGATIVE COEFFICIENTS), AND ANY HORIZONTAL SHIFTS. THESE FEATURES HELP DETERMINE THE SPECIFIC PARAMETERS IN THE TRANSFORMED EQUATION.

IF $G(x)$ APPEARS NARROWER THAN $|x|$, WHAT DOES THAT SUGGEST ABOUT THE TRANSFORMATION?

A NARROWER GRAPH INDICATES A VERTICAL STRETCH, SO THE EQUATION LIKELY HAS AN ABSOLUTE VALUE COEFFICIENT GREATER THAN 1, SUCH AS $G(x) = A|x|$ WITH $A > 1$, MAKING THE GRAPH STEEPER.

WHAT IS THE EFFECT OF A NEGATIVE SIGN BEFORE THE ABSOLUTE VALUE IN $G(x)$?

A NEGATIVE SIGN REFLECTS THE GRAPH ACROSS THE x -AXIS, FLIPPING IT UPSIDE DOWN. FOR EXAMPLE, $G(x) = -|x|$ IS THE REFLECTION OF $|x|$ ACROSS THE x -AXIS.

HOW WOULD A HORIZONTAL SHIFT BE REPRESENTED IN THE EQUATION OF $G(x)$?

A HORIZONTAL SHIFT IS REPRESENTED BY ADDING OR SUBTRACTING A VALUE h INSIDE THE ABSOLUTE VALUE: $G(x) = |x - h|$ SHIFTS THE GRAPH TO THE RIGHT BY h UNITS, WHILE $G(x) = |x + h|$ SHIFTS IT TO THE LEFT.

GIVEN THE GRAPH OF $G(x)$ IS SHIFTED 3 UNITS TO THE RIGHT AND 2 UNITS DOWNWARD FROM $|x|$, WHAT IS THE EQUATION FOR $G(x)$?

THE EQUATION IS $G(x) = |x - 3| - 2$, REPRESENTING A RIGHT SHIFT OF 3 UNITS AND A DOWNWARD SHIFT OF 2 UNITS.

ADDITIONAL RESOURCES

UNDERSTANDING THE TRANSFORMATION OF THE GRAPH OF $G(x)$ FROM $f(x) = |x|$

WHEN EXPLORING TRANSFORMATIONS OF FUNCTIONS, ESPECIALLY THE ABSOLUTE VALUE FUNCTION $(f(x) = |x|)$, IT'S CRUCIAL TO UNDERSTAND HOW VARIOUS SHIFTS, STRETCHES, COMPRESSIONS, AND REFLECTIONS MODIFY THE GRAPH'S SHAPE AND POSITION. IN THIS DETAILED REVIEW, WE WILL ANALYZE HOW TO DERIVE THE EQUATION OF A TRANSFORMED FUNCTION $(G(x))$ GIVEN THE GRAPH OF $(G(x))$ AS A TRANSFORMATION OF $(f(x) = |x|)$. WE WILL DELVE INTO THE TYPES OF TRANSFORMATIONS, HOW THEY AFFECT THE ORIGINAL GRAPH, AND THE SYSTEMATIC APPROACH TO WRITE THE PRECISE MATHEMATICAL EQUATION FOR $(G(x))$.

FUNDAMENTALS OF THE ABSOLUTE VALUE FUNCTION $(f(x) = |x|)$

BEFORE ANALYZING SPECIFIC TRANSFORMATIONS, IT'S IMPORTANT TO UNDERSTAND THE BASIC PROPERTIES AND GRAPH OF $(f(x) = |x|)$:

- SHAPE AND VERTEX: THE GRAPH IS A "V" SHAPE WITH ITS VERTEX AT THE ORIGIN $((0,0))$.
- LINE SEGMENTS: THE GRAPH CONSISTS OF TWO STRAIGHT LINES:
 - FOR $(x \geq 0)$, $(f(x) = x)$.
 - FOR $(x \leq 0)$, $(f(x) = -x)$.
- SYMMETRY: IT IS SYMMETRIC WITH RESPECT TO THE Y-AXIS.
- KEY POINTS: $((0,0))$, $((1,1))$, $((-1,1))$, ETC.

UNDERSTANDING THESE FEATURES ALLOWS US TO RECOGNIZE HOW TRANSFORMATIONS ALTER THE SHAPE AND POSITION OF THIS FUNDAMENTAL "V."

TYPES OF TRANSFORMATIONS AND THEIR EFFECTS ON $(|x|)$

TRANSFORMATIONS CAN BE CATEGORIZED BROADLY INTO SHIFTS, STRETCHES/COMPRESSIONS, AND REFLECTIONS. EACH TRANSFORMATION MODIFIES THE ORIGINAL GRAPH IN A PREDICTABLE WAY:

1. HORIZONTAL SHIFTS

- EQUATION: $(f(x - h))$
- EFFECT: MOVES THE GRAPH LEFT OR RIGHT BY (h) UNITS.
 - IF $(h > 0)$, THE GRAPH SHIFTS RIGHT BY (h) .
 - IF $(h < 0)$, IT SHIFTS LEFT BY $(|h|)$.

2. VERTICAL SHIFTS

- EQUATION: $(f(x) + k)$
- EFFECT: MOVES THE GRAPH UP OR DOWN BY (k) UNITS.
 - IF $(k > 0)$, THE GRAPH SHIFTS UP.
 - IF $(k < 0)$, IT SHIFTS DOWN.

3. HORIZONTAL COMPRESSION AND STRETCH

- EQUATION: $(f(bx))$

- EFFECT:
- If $|b| > 1$, THE GRAPH IS HORIZONTALLY COMPRESSED BY A FACTOR OF $1/|b|$.
- If $0 < |b| < 1$, THE GRAPH IS HORIZONTALLY STRETCHED BY A FACTOR OF $1/|b|$.

4. VERTICAL COMPRESSION AND STRETCH

- EQUATION: $(a \cdot f(x))$
- EFFECT:
- If $|a| > 1$, THE GRAPH IS VERTICALLY STRETCHED.
- If $0 < |a| < 1$, THE GRAPH IS VERTICALLY COMPRESSED.
- If $a < 0$, ADDITIONALLY, THE GRAPH IS REFLECTED ACROSS THE X-AXIS.

5. REFLECTIONS

- ACROSS THE Y-AXIS: REPLACE (x) WITH $(-x)$, I.E., $(f(-x))$.
- ACROSS THE X-AXIS: MULTIPLY THE ENTIRE FUNCTION BY (-1) , I.E., $(-f(x))$.

STEP-BY-STEP APPROACH TO WRITE THE EQUATION OF $(G(x))$

GIVEN THE GRAPH OF $(G(x))$ AS A TRANSFORMATION OF $(f(x) = |x|)$, FOLLOW THESE STEPS:

1. IDENTIFY BASIC FEATURES:
 - DETERMINE THE LOCATION OF THE VERTEX.
 - FIND HOW THE "V" SHAPE HAS SHIFTED OR SCALED.
 - NOTE ANY REFLECTIONS.
2. DETERMINE HORIZONTAL AND VERTICAL SHIFTS:
 - CHECK IF THE VERTEX IS AT SOME (h, k) OTHER THAN $(0,0)$.
 - THE VERTEX OF $(G(x))$ IS AT (h, k) , INDICATING A SHIFT.
3. IDENTIFY COMPRESSION OR STRETCHING:
 - ANALYZE THE SLOPES OF THE ARMS OF THE "V".
 - THE SLOPE OF THE RIGHT ARM IS (m_1) , AND OF THE LEFT ARM IS (m_2) .
 - FOR $(f(x) = |x|)$, SLOPES ARE (1) AND (-1) .
4. DETERMINE REFLECTIONS:
 - IS THE GRAPH REFLECTED ACROSS X-AXIS OR Y-AXIS?
 - REFLECTION ACROSS THE X-AXIS FLIPS THE GRAPH UPSIDE DOWN.
 - REFLECTION ACROSS THE Y-AXIS MIRRORS THE GRAPH HORIZONTALLY.
5. COMBINE TRANSFORMATIONS:
 - WRITE THE TRANSFORMATION STEP-BY-STEP, APPLYING SHIFTS, STRETCHES, AND REFLECTIONS.
6. WRITE THE EQUATION:
 - INCORPORATE ALL TRANSFORMATIONS INTO A SINGLE EQUATION.

EXAMPLES OF DERIVING $G(x)$ FROM THE GRAPH

LET'S CONSIDER SPECIFIC CASES TO ILLUSTRATE HOW TO WRITE $G(x)$:

CASE 1: HORIZONTAL SHIFT

SUPPOSE THE VERTEX OF THE GRAPH IS AT $(h, 0)$. THE TRANSFORMED FUNCTION IS A SHIFT OF $|x|$ TO THE RIGHT BY h .

- EQUATION: $G(x) = |x - h|$

FOR EXAMPLE, IF THE VERTEX IS AT $(3, 0)$, THEN:

$$G(x) = |x - 3|$$

CASE 2: VERTICAL SHIFT

IF THE VERTEX IS AT $(0, k)$:

- EQUATION: $G(x) = |x| + k$

FOR A VERTEX AT $(0, 4)$:

$$G(x) = |x| + 4$$

CASE 3: HORIZONTAL COMPRESSION/STRETCH AND REFLECTION

SUPPOSE THE ARMS OF THE "V" ARE STEEPER OR SHALLOWER THAN THE ORIGINAL $|x|$, INDICATING A HORIZONTAL SCALING:

- FOR A NARROWER "V" (STEEPER SLOPES), APPLY A HORIZONTAL COMPRESSION: $G(x) = |b \cdot (x - h)| + k$

- FOR A WIDER "V" (SHALLOWER SLOPES), APPLY A HORIZONTAL STRETCH: $0 < |b| < 1$.

IF THE GRAPH IS REFLECTED ACROSS THE Y-AXIS, REPLACE x WITH $-x$:

$$G(x) = |- (x - h)| + k = |-x + h| + k$$

CASE 4: VERTICAL STRETCH OR COMPRESSION & REFLECTION

IF THE ARMS OF THE "V" ARE STEEPER OR SHALLOWER:

- USE A COEFFICIENT a :

$$G(x) = a \cdot |x - h| + k$$

- If $(a < 0)$, the graph is reflected over the x-axis.

COMPLETE EXAMPLE: DERIVING $G(x)$ FROM A SPECIFIC GRAPH

SUPPOSE THE GIVEN GRAPH OF $G(x)$ IS A “V” WITH THE VERTEX AT $(2, 3)$, THE ARMS HAVE SLOPES OF ± 2 AND (-2) , AND THE GRAPH IS NOT REFLECTED OR COMPRESSED. HOW DO WE WRITE THE EQUATION?

STEP 1: RECOGNIZE THE VERTEX AT $(2, 3)$:

$$[G(x) \text{ HAS VERTEX AT } (h, k) = (2, 3)]$$

STEP 2: DETERMINE THE SLOPES:

- THE SLOPES ARE ± 2 . THE ORIGINAL $|x|$ HAS SLOPES ± 1 .

- TO GET SLOPES ± 2 , APPLY A VERTICAL STRETCH BY A FACTOR OF 2:

$$[G(x) = 2 \cdot |x - 2| + 3]$$

STEP 3: FINAL EQUATION:

$$[G(x) = 2|x - 2| + 3]$$

THIS EQUATION CORRECTLY REFLECTS THE GRAPH'S VERTEX, SLOPES, AND POSITION.

SPECIAL TRANSFORMATIONS AND THEIR IMPACT ON $|x|$

BEYOND THE BASIC TRANSFORMATIONS, SOME MORE COMPLEX MODIFICATIONS CAN BE COMBINED:

- COMBINING SHIFTS AND STRETCHES: E.G., $G(x) = a|b(x - h)| + k$

- REFLECTIONS COMBINED WITH OTHER TRANSFORMATIONS: E.G., $G(x) = -|x + h| + k$

- PIECEWISE TRANSFORMATIONS: WHEN THE GRAPH INVOLVES MULTIPLE TRANSFORMATIONS LIKE REFLECTIONS AND SHIFTS THAT CHANGE THE SHAPE IN DIFFERENT REGIONS.

UNDERSTANDING HOW TO INTERPRET THESE COMBINATIONS IS CRUCIAL FOR ACCURATELY WRITING THE EQUATION.

SUMMARY AND KEY TAKEAWAYS

- THE ORIGINAL $f(x) = |x|$ GRAPH IS A SYMMETRIC “

Given The Graph Of G X Which Is A Transformation Of F X X Write The Equation For G X Graph Transformations

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