

NEED HELP ASAP WHICH FUNCTION IS BEST REPRESENTED BY THIS GRAPH? RESPONSES: $f(x)=x^2+2x$ $1/f(x)=x^2+2x$ $f(x)=x^2$ $1/f(x)=x^2+2x$

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UNDERSTANDING THE RELATIONSHIP BETWEEN A GRAPH AND ITS CORRESPONDING MATHEMATICAL FUNCTION IS CRUCIAL IN ALGEBRA AND CALCULUS. WHEN FACED WITH A GRAPH, STUDENTS AND PROFESSIONALS ALIKE OFTEN ASK: "WHICH FUNCTION BEST REPRESENTS THIS GRAPH?" ACCURATELY IDENTIFYING THE FUNCTION ALLOWS FOR BETTER ANALYSIS, PREDICTION, AND APPLICATION OF MATHEMATICAL CONCEPTS. IN THIS ARTICLE, WE WILL EXPLORE THE PROCESS OF MATCHING A GRAPH TO ITS FUNCTION, ANALYZE THE SPECIFIC OPTIONS PROVIDED— $f(x) = x^2 + 2x$, $1/f(x) = x^2 + 2x$, AND $1/f(x) = x^2 + 2x$ —AND OFFER GUIDANCE TO HELP YOU DETERMINE THE CORRECT FUNCTION EFFICIENTLY.

UNDERSTANDING BASIC TYPES OF FUNCTIONS AND THEIR GRAPHS

BEFORE DELVING INTO SPECIFIC FUNCTIONS, IT'S IMPORTANT TO UNDERSTAND THE COMMON TYPES OF FUNCTIONS AND THEIR TYPICAL GRAPH CHARACTERISTICS.

QUADRATIC FUNCTIONS

- FORM: $f(x) = ax^2 + bx + c$
- GRAPH SHAPE: PARABOLAS
- KEY FEATURES:
- SYMMETRICAL ABOUT A VERTICAL AXIS
- VERTEX AT THE PARABOLA'S HIGHEST OR LOWEST POINT
- OPENS UPWARD IF $a > 0$, DOWNWARD IF $a < 0$

LINEAR FUNCTIONS

- FORM: $f(x) = mx + b$
- GRAPH SHAPE: STRAIGHT LINE
- KEY FEATURES:
- CONSTANT SLOPE
- CROSSES THE Y-AXIS AT b

RECIPROCAL FUNCTIONS

- FORM: $f(x) = 1 / g(x)$
- GRAPH SHAPE: HYPERBOLAS
- KEY FEATURES:
- ASYMPTOTES AT $x=0$ OR $y=0$
- REFLECTS RECIPROCAL BEHAVIOR

ANALYZING THE GIVEN OPTIONS

LET'S EXAMINE EACH PROVIDED FUNCTION AND UNDERSTAND THEIR TYPICAL GRAPH FEATURES.

$$f(x) = x^2 + 2x$$

- TYPE: QUADRATIC FUNCTION
- GRAPH FEATURES:
- PARABOLA OPENING UPWARD
- AXIS OF SYMMETRY AT $x = -b / 2a = -2 / 2 = -1$
- VERTEX AT $x = -1$
- VERTEX COORDINATE: $f(-1) = (-1)^2 + 2(-1) = 1 - 2 = -1$
- THE PARABOLA IS SHIFTED BASED ON THE COEFFICIENTS

$$1/f(x) = x^2$$

- REARRANGED AS: $f(x) = 1 / x^2$
- TYPE: RECIPROCAL QUADRATIC FUNCTION
- GRAPH FEATURES:
- HYPERBOLA WITH TWO BRANCHES
- VERTICAL ASYMPTOTE AT $x=0$
- HORIZONTAL ASYMPTOTE AT $y=0$
- EVEN FUNCTION: SYMMETRIC ABOUT THE Y-AXIS
- VALUES APPROACH INFINITY AS x APPROACHES 0
- VALUES APPROACH 0 AS $|x|$ BECOMES LARGE

$$2x$$

- TYPE: LINEAR FUNCTION
- GRAPH FEATURES:
- STRAIGHT LINE PASSING THROUGH THE ORIGIN
- SLOPE OF 2
- FOR EVERY UNIT INCREASE IN x , $f(x)$ INCREASES BY 2

$$1/f(x) = x^2 + 2x$$

- REARRANGED AS: $f(x) = 1 / (x^2 + 2x)$
- TYPE: RECIPROCAL QUADRATIC FUNCTION
- GRAPH FEATURES:
- HYPERBOLA WITH ASYMPTOTES WHERE THE DENOMINATOR EQUALS ZERO
- VERTICAL ASYMPTOTE AT $x^2 + 2x = 0 \Rightarrow x(x + 2) = 0 \Rightarrow x=0$ AND $x=-2$
- THE GRAPH HAS TWO BRANCHES, EACH APPROACHING THE ASYMPTOTES

MATCHING THE GRAPH TO THE CORRECT FUNCTION

TO DETERMINE WHICH FUNCTION IS BEST REPRESENTED BY THE GRAPH, CONSIDER THE FOLLOWING STEPS:

STEP 1: OBSERVE THE GRAPH'S SHAPE

- PARABOLA: LIKELY CORRESPONDS TO QUADRATIC FUNCTIONS LIKE $f(x) = x^2 + 2x$

- HYPERBOLA: INDICATES RECIPROCAL FUNCTIONS SUCH AS $1/f(x) = x^2$ OR $1/f(x) = x^2 + 2x$
- STRAIGHT LINE: CORRESPONDS TO LINEAR FUNCTIONS LIKE $2x$

STEP 2: IDENTIFY ASYMPTOTES AND SYMMETRY

- VERTICAL ASYMPTOTES: SUGGEST RECIPROCAL FUNCTIONS WITH DENOMINATORS THAT VANISH AT SPECIFIC POINTS
- HORIZONTAL ASYMPTOTES: INDICATE BEHAVIOR AS x APPROACHES INFINITY
- SYMMETRY: EVEN FUNCTIONS (LIKE $1/x^2$) ARE SYMMETRIC ABOUT THE y -AXIS; ODD FUNCTIONS (LIKE $2x$) ARE SYMMETRIC ABOUT THE ORIGIN

STEP 3: ANALYZE CRITICAL POINTS AND BEHAVIOR

- LOOK FOR PEAKS, VALLEYS, INTERCEPTS, AND ASYMPTOTES ON THE GRAPH
- MATCH THESE FEATURES TO THE EXPECTED CHARACTERISTICS OF EACH FUNCTION

APPLYING THE ANALYSIS TO OUR SPECIFIC OPTIONS

SUPPOSE THE GRAPH DISPLAYS A PARABOLA OPENING UPWARD WITH A VERTEX AT $(-1, -1)$. THIS MATCHES THE BEHAVIOR OF $f(x) = x^2 + 2x$ BECAUSE:

- THE VERTEX OCCURS AT $x = -1$
- THE MINIMUM POINT IS AT $y = -1$
- THE PARABOLA OPENS UPWARD

IF THE GRAPH SHOWS A HYPERBOLA WITH ASYMPTOTES AT $x=0$ AND $y=0$, AND THE BRANCHES ARE SYMMETRIC ABOUT THE y -AXIS, IT SUGGESTS THE FUNCTION IS $f(x) = 1/x^2$, CORRESPONDING TO $1/f(x) = x^2$.

A STRAIGHT LINE WITH A SLOPE OF 2 PASSING THROUGH THE ORIGIN POINTS TOWARD THE LINEAR FUNCTION $f(x) = 2x$.

A GRAPH WITH ASYMPTOTES AT $x=0$ AND $x=-2$, WITH BRANCHES APPROACHING THESE LINES, INDICATES THE FUNCTION $f(x) = 1/(x^2 + 2x)$.

COMMON MISTAKES TO AVOID WHEN MATCHING FUNCTIONS TO GRAPHS

- CONFUSING RECIPROCAL FUNCTIONS WITH THEIR PARENT FUNCTIONS: REMEMBER THAT RECIPROCAL FUNCTIONS HAVE ASYMPTOTES AND HYPERBOLIC SHAPES.
- IGNORING ASYMPTOTES: ASYMPTOTIC BEHAVIOR IS OFTEN THE KEY TO IDENTIFYING RECIPROCAL FUNCTIONS.
- MISINTERPRETING VERTEX POINTS: FOR QUADRATICS, THE VERTEX PROVIDES CRITICAL INFORMATION ABOUT THE PARABOLA'S SHAPE AND POSITION.
- OVERLOOKING SYMMETRY: SYMMETRY ABOUT AXES CAN HELP DISTINGUISH BETWEEN EVEN AND ODD FUNCTIONS.

PRACTICAL TIPS FOR IDENTIFYING FUNCTIONS FROM GRAPHS

- USE COORDINATE POINTS: PICK POINTS ON THE GRAPH AND SEE IF THEY SATISFY THE FUNCTION'S EQUATION.
- CHECK FOR SYMMETRY: SYMMETRY ABOUT AXES OR THE ORIGIN CAN GUIDE YOU.
- IDENTIFY ASYMPTOTES: VERTICAL AND HORIZONTAL ASYMPTOTES ARE CLUES TO RECIPROCAL OR RATIONAL FUNCTIONS.
- ESTIMATE INTERCEPTS: THE POINTS WHERE THE GRAPH CROSSES AXES REVEAL KEY FUNCTION PROPERTIES.

CONCLUSION: WHICH FUNCTION DOES THE GRAPH LIKELY REPRESENT?

BASED ON THE CHARACTERISTICS DISCUSSED:

- IF THE GRAPH IS A PARABOLA OPENING UPWARD WITH VERTEX AT $(-1, -1)$, THE BEST FIT IS $f(x) = x^2 + 2x$.
- IF THE GRAPH SHOWS A HYPERBOLA WITH ASYMPTOTES AT $x=0$ AND $y=0$, THEN $f(x) = 1/x^2$ OR $f(x) = 1/(x^2 + 2x)$ DEPENDING ON THE ASYMPTOTE LOCATIONS.
- IF THE GRAPH IS A STRAIGHT LINE PASSING THROUGH THE ORIGIN WITH A SLOPE OF 2, THEN $f(x) = 2x$.

IN SUMMARY, CAREFULLY ANALYZE THE SHAPE, ASYMPTOTES, SYMMETRY, AND KEY POINTS OF THE GRAPH TO IDENTIFY THE CORRESPONDING FUNCTION ACCURATELY. UNDERSTANDING THESE FEATURES WILL ENHANCE YOUR ABILITY TO MATCH GRAPHS WITH THEIR FUNCTIONS SWIFTLY AND CORRECTLY, WHICH IS ESSENTIAL FOR SOLVING ALGEBRAIC PROBLEMS AND ADVANCING IN CALCULUS.

REMEMBER: WHEN IN DOUBT, PLOT SOME POINTS FROM THE GRAPH AND TEST THEM AGAINST YOUR CANDIDATE FUNCTIONS. THIS PRACTICAL APPROACH OFTEN CLARIFIES THE BEST MATCH AND DEEPENS YOUR UNDERSTANDING OF FUNCTION BEHAVIOR.

FREQUENTLY ASKED QUESTIONS

WHICH FUNCTION BEST REPRESENTS A PARABOLA OPENING UPWARDS BASED ON THE GRAPH?

$$f(x) = x^2 + 2x$$

HOW CAN I IDENTIFY THE QUADRATIC FUNCTION FROM ITS GRAPH?

A QUADRATIC FUNCTION IS REPRESENTED BY A PARABOLA; AMONG THE OPTIONS, $f(x) = x^2 + 2x$ BEST DEPICTS THIS SHAPE.

WHY IS $f(x) = x^2 + 2x$ THE CORRECT CHOICE FOR A GRAPH SHOWING A PARABOLA?

BECAUSE IT IS A QUADRATIC FUNCTION WITH A SQUARED TERM, WHICH RESULTS IN A PARABOLA SHAPE THAT MATCHES THE GRAPH.

BETWEEN THE OPTIONS, WHICH FUNCTION IS NOT QUADRATIC?

$f(x) = x \cdot 2x + 1$ AND $f(x) = x \cdot 2x$ ARE NOT STANDARD QUADRATIC FUNCTIONS; THE CORRECT QUADRATIC FUNCTION IS $f(x) = x^2 + 2x$.

IF THE GRAPH OPENS UPWARDS AND HAS ITS VERTEX AT A SPECIFIC POINT, WHICH FUNCTION LIKELY MODELS IT?

$f(x) = x^2 + 2x$, SINCE IT IS A QUADRATIC FUNCTION WITH A VERTEX THAT CAN BE DETERMINED FROM THE EQUATION.

ADDITIONAL RESOURCES

NEED HELP ASAP WHICH FUNCTION IS BEST REPRESENTED BY THIS GRAPH?

WHEN CONFRONTED WITH A GRAPH AND ASKED TO IDENTIFY THE CORRESPONDING MATHEMATICAL FUNCTION, STUDENTS AND PROFESSIONALS ALIKE OFTEN FEEL A RUSH OF URGENCY. THIS SCENARIO IS COMMON IN EXAMS, HOMEWORK, OR REAL-WORLD

DATA ANALYSIS WHERE QUICK, ACCURATE IDENTIFICATION CAN SIGNIFICANTLY IMPACT UNDERSTANDING AND DECISION-MAKING. IN THIS GUIDE, WE WILL EXPLORE THE KEY METHODS FOR ANALYZING A GRAPH TO DETERMINE WHICH FUNCTION BEST MATCHES IT, SPECIFICALLY FOCUSING ON THE OPTIONS PROVIDED:

- $f(x) = x^2 + 2x$
- $f(x) = x^2$
- $2x$
- $f(x) = x^2 + 2x$

UNDERSTANDING THESE FUNCTIONS AND THEIR CHARACTERISTIC SHAPES IS ESSENTIAL FOR RAPID IDENTIFICATION, ESPECIALLY UNDER TIME CONSTRAINTS.

UNDERSTANDING THE FUNCTIONS PRESENTED

BEFORE DIVING INTO GRAPH ANALYSIS, LET'S CLARIFY THE FUNCTIONS PROVIDED:

1. $f(x) = x^2 + 2x$

A QUADRATIC FUNCTION, THIS PARABOLA OPENS UPWARD OR DOWNWARD DEPENDING ON THE LEADING COEFFICIENT, WITH A VERTEX THAT CAN BE FOUND BY COMPLETING THE SQUARE OR USING DERIVATIVES.

2. $f(x) = x^2$

THIS APPEARS TO BE A NOTATION ERROR OR POSSIBLY A TYPO, BUT ASSUMING IT MEANS $f(x) = x^2$, THIS IS A BASIC QUADRATIC PARABOLA CENTERED AT THE ORIGIN.

3. $2x$

THIS IS A LINEAR FUNCTION WITH A SLOPE OF 2; IT'S A STRAIGHT LINE PASSING THROUGH THE ORIGIN WITH A POSITIVE SLOPE.

4. $f(x) = x^2 + 2x$

THIS IS SIMILAR TO THE FIRST FUNCTION, LIKELY A REPEAT OR EMPHASIZING THE SAME QUADRATIC FUNCTION.

STEP-BY-STEP GUIDE TO IDENTIFYING THE FUNCTION FROM A GRAPH

WHEN YOU SEE A GRAPH AND NEED TO DETERMINE WHICH FUNCTION IT REPRESENTS, FOLLOW THESE SYSTEMATIC STEPS:

STEP 1: OBSERVE THE OVERALL SHAPE

- LINE OR CURVE?

IS THE GRAPH A STRAIGHT LINE OR A CURVE?

- STRAIGHT LINE INDICATES A LINEAR FUNCTION LIKE $2x$.
- CURVE INDICATES A QUADRATIC OR HIGHER-DEGREE POLYNOMIAL.

- NUMBER OF TURNING POINTS

A PARABOLA HAS ONE VERTEX (A SINGLE TURNING POINT).

MORE COMPLEX CURVES WITH MULTIPLE PEAKS AND VALLEYS SUGGEST HIGHER-DEGREE POLYNOMIALS OR DIFFERENT FUNCTIONS.

STEP 2: IDENTIFY THE FUNCTION TYPE

- LINEAR FUNCTIONS (LIKE $2x$):
- STRAIGHT LINE.
- CONSTANT SLOPE.
- NO CURVATURE.

- QUADRATIC FUNCTIONS (LIKE $x^2 + 2x$):
- PARABOLA SHAPE.
- SYMMETRIC ABOUT A VERTICAL AXIS.
- TYPICALLY HAS A VERTEX (MAXIMUM OR MINIMUM POINT).

STEP 3: EXAMINE INTERCEPTS

- Y-INTERCEPT:

THE POINT WHERE THE GRAPH CROSSES THE Y-AXIS ($x=0$).

FOR $f(x)=x^2+2x$, THE Y-INTERCEPT IS AT $(0,0)$.

FOR $2x$, THE Y-INTERCEPT IS AT $(0,0)$.

- X-INTERCEPTS:

THE POINTS WHERE THE GRAPH CROSSES THE X-AXIS.

FOR QUADRATICS, ROOTS CAN BE FOUND VIA FACTORING OR QUADRATIC FORMULA.

FOR $2x$, CROSSING AT $x=0$.

STEP 4: ANALYZE SYMMETRY AND VERTEX

- SYMMETRY:

PARABOLAS ARE SYMMETRIC ABOUT THEIR VERTEX.

THE PARABOLA OF $f(x) = x^2 + 2x$ IS SYMMETRIC ABOUT ITS AXIS OF SYMMETRY.

- VERTEX LOCATION:

FOR $f(x) = x^2 + 2x$, THE VERTEX CAN BE FOUND BY COMPLETING THE SQUARE OR USING THE FORMULA:

$$x = -b/2a.$$

HERE, $a=1$, $b=2$, SO $x = -2/2 = -1$.

THE Y-COORDINATE IS $f(-1) = (-1)^2 + 2(-1) = 1 - 2 = -1$.

SO, VERTEX AT $(-1, -1)$.

- FOR THE BASIC QUADRATIC $f(x) = x^2$, THE VERTEX IS AT $(0,0)$.

STEP 5: CHECK THE RANGE AND DOMAIN

- QUADRATIC FUNCTIONS:

RANGE IS EITHER $y \geq$ VERTEX VALUE (IF PARABOLA OPENS UPWARD) OR $y \leq$ VERTEX VALUE (IF DOWNWARD).

DOMAIN IS ALL REAL NUMBERS.

- LINEAR FUNCTIONS:

DOMAIN AND RANGE ARE ALL REAL NUMBERS.

APPLYING THE STEPS TO THE GIVEN FUNCTIONS

LET'S ANALYZE HOW EACH FUNCTION'S GRAPH WOULD APPEAR:

FUNCTION 1 & 4: $f(x) = x^2 + 2x$

- SHAPE: PARABOLA OPENING UPWARD (SINCE COEFFICIENT OF x^2 IS POSITIVE).
- VERTEX: AT $(-1, -1)$.
- AXIS OF SYMMETRY: $x = -1$.
- INTERCEPTS:
- Y-INTERCEPT AT $(0, 0)$.
- X-INTERCEPTS FOUND VIA QUADRATIC FORMULA:
 $0 = x^2 + 2x \Rightarrow x(x + 2) = 0 \Rightarrow x = 0$ OR $x = -2$.
- SO, ROOTS AT $(0,0)$ AND $(-2, 0)$.

FUNCTION 2: $f(x) = x^2$

- SHAPE: PARABOLA OPENING UPWARD.
- VERTEX AT (0, 0).
- NO LINEAR TERM, SO THE VERTEX IS AT THE ORIGIN, AND THE PARABOLA IS SYMMETRIC ABOUT Y-AXIS.
- INTERCEPTS:
- Y-INTERCEPT AT (0, 0).
- X-INTERCEPT AT (0, 0).

FUNCTION 3: 2x

- SHAPE: STRAIGHT LINE WITH SLOPE 2.
- PASSES THROUGH (0, 0).
- NO CURVATURE.

VISUAL CLUES TO HELP IDENTIFY THE FUNCTION

SUPPOSE YOU ARE PRESENTED WITH AN ACTUAL GRAPH. HERE'S HOW TO INTERPRET IT:

1. CHECK IF THE GRAPH IS A STRAIGHT LINE

- IF YES, THEN 2x IS THE LIKELY CANDIDATE.
- THE LINE SHOULD PASS THROUGH THE ORIGIN WITH A CONSISTENT SLOPE OF 2.

2. CHECK IF THE GRAPH IS A PARABOLA

- LOOK FOR A SYMMETRIC CURVE WITH ONE VERTEX.
- DETERMINE THE VERTEX POINT AND AXIS OF SYMMETRY.
- FOR THE PARABOLA OPENING UPWARD, THE VERTEX IS THE LOWEST POINT.

3. CONFIRM INTERCEPTS

- DOES THE GRAPH CROSS THE AXES AT POINTS MATCHING THE INTERCEPTS PREDICTED?
- FOR EXAMPLE, IF THE PARABOLA CROSSES THE X-AXIS AT 0 AND -2, IT ALIGNS WITH $f(x)=x^2 + 2x$.

PRACTICAL TIPS FOR FAST IDENTIFICATION

- USE SYMMETRY: PARABOLAS ARE SYMMETRIC; LINES ARE NOT.
- IDENTIFY INTERCEPTS: QUICK WAY TO NARROW DOWN OPTIONS.
- OBSERVE THE SHAPE: CURVED VS. STRAIGHT.
- FIND THE VERTEX: GIVES CLUES ABOUT QUADRATIC FUNCTIONS.

SUMMARY TABLE OF FUNCTIONS AND GRAPH TRAITS

FUNCTION	SHAPE	VERTEX	INTERCEPTS	KEY FEATURES
$f(x)=x^2+2x$	UPWARD PARABOLA	AT (-1, -1)	X: 0, -2; Y: 0	SYMMETRIC, VERTEX AT (-1, -1)
$f(x)=x^2$	UPWARD PARABOLA	AT (0, 0)	AT (0, 0)	SYMMETRIC ABOUT Y-AXIS
2x	STRAIGHT LINE	PASSES THROUGH (0, 0)	AT (0, 0)	SLOPE=2, NO CURVATURE

FINAL RECOMMENDATIONS

WHEN FACED WITH THE QUESTION "WHICH FUNCTION IS BEST REPRESENTED BY THIS GRAPH?", CONSIDER THE FOLLOWING QUICK

CHECKLIST:

1. IS THE GRAPH A LINE OR A CURVE?
 - IF A LINE, PROBABLY $2x$.
 - IF A CURVE, MOVE TO THE NEXT STEPS.
2. DOES THE CURVE RESEMBLE A PARABOLA?
 - CHECK FOR SYMMETRY AND VERTEX LOCATION.
3. WHAT ARE THE INTERCEPTS?
 - MATCH THEM WITH THE PREDICTED INTERCEPTS FOR THE CANDIDATE FUNCTIONS.
4. LOCATE THE VERTEX AND AXIS OF SYMMETRY
 - USE THE VERTEX POINT TO DISTINGUISH BETWEEN x^2 AND $x^2 + 2x$.
5. CONFIRM WITH ALGEBRAIC CALCULATIONS IF POSSIBLE
 - PLUG IN POINTS AND VERIFY THE FUNCTION.

CONCLUSION

IDENTIFYING WHICH FUNCTION CORRESPONDS TO A GRAPH REQUIRES A SYSTEMATIC APPROACH THAT CONSIDERS SHAPE, INTERCEPTS, SYMMETRY, AND KEY FEATURES LIKE THE VERTEX. FOR THE OPTIONS PROVIDED:

- IF THE GRAPH IS A PARABOLA WITH VERTEX AT $(-1, -1)$ AND INTERCEPTS AT $(0, 0)$ AND $(-2, 0)$, THEN $f(x) = x^2 + 2x$ IS THE BEST FIT.
- IF THE GRAPH IS A PARABOLA CENTERED AT THE ORIGIN, THEN $f(x) = x^2$ IS LIKELY.
- IF THE GRAPH IS A STRAIGHT LINE PASSING THROUGH THE ORIGIN WITH SLOPE 2, THEN $2x$ IS THE MATCH.

BY APPLYING THESE PRINCIPLES, YOU'LL BE ABLE TO QUICKLY AND CONFIDENTLY IDENTIFY THE CORRECT FUNCTION, EVEN IN URGENT SITUATIONS. REMEMBER, PRACTICE WITH DIFFERENT GRAPHS ENHANCES SPEED AND ACCURACY—SO KEEP ANALYZING VARIOUS FUNCTIONS AND THEIR GRAPHS TO SHARPEN YOUR SKILLS!

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- [Find Functions F And G Such That F=fg. \(Use Non-identity Functions For F\(x\) And G\(x\). \)](#)
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