

THREE GRAPHS ARE GIVEN BELOW.FOR EACH, CHOOSE ITS EQUATION FROM THE FOLLOWING. $y=2 \tan x$ $y = \csc x$ x^4 EQUATION:(CHOOSE

THREE GRAPHS ARE GIVEN BELOW. FOR EACH, CHOOSE ITS EQUATION FROM THE FOLLOWING. $y=2 \tan x$, $y = \csc x$, x^4

INTRODUCTION

UNDERSTANDING THE RELATIONSHIP BETWEEN GRAPHS AND THEIR CORRESPONDING EQUATIONS IS A FUNDAMENTAL ASPECT OF LEARNING CALCULUS AND TRIGONOMETRY. OFTEN, STUDENTS ARE PRESENTED WITH VARIOUS GRAPHS AND TASKED WITH IDENTIFYING THEIR EQUATIONS BASED ON THEIR SHAPES, PROPERTIES, AND BEHAVIORS. THIS PROCESS ENHANCES COMPREHENSION OF HOW MATHEMATICAL EXPRESSIONS TRANSLATE INTO VISUAL REPRESENTATIONS, WHICH IS ESSENTIAL FOR MASTERING TOPICS SUCH AS FUNCTION ANALYSIS, GRAPH TRANSFORMATIONS, AND TRIGONOMETRIC IDENTITIES.

IN THIS ARTICLE, WE ANALYZE THREE DISTINCT GRAPHS, EACH ILLUSTRATING UNIQUE FEATURES. OUR GOAL IS TO ACCURATELY MATCH EACH GRAPH WITH ITS CORRESPONDING EQUATION FROM THE OPTIONS: $y = 2 \tan x$, $y = \csc x$, AND x^4 . TO DO SO, WE WILL EXAMINE KEY CHARACTERISTICS SUCH AS ASYMPTOTES, SYMMETRY, INTERCEPTS, DOMAIN AND RANGE, AND OVERALL SHAPE. BY UNDERSTANDING THESE PROPERTIES, WE CAN CONFIDENTLY IDENTIFY WHICH EQUATION CORRESPONDS TO EACH GRAPH.

UNDERSTANDING THE EQUATIONS AND THEIR GRAPHICAL FEATURES

BEFORE ANALYZING THE GRAPHS, IT IS IMPORTANT TO REVIEW THE FUNDAMENTAL PROPERTIES OF EACH POTENTIAL EQUATION.

1. $y = 2 \tan x$

- TYPE: TRIGONOMETRIC TANGENT FUNCTION
- DOMAIN: $x \neq (\pi/2) + n\pi$, WHERE n IS AN INTEGER
- RANGE: ALL REAL NUMBERS $(-\infty, \infty)$
- KEY FEATURES:
 - VERTICAL ASYMPTOTES AT $x = (\pi/2) + n\pi$
 - THE GRAPH REPEATS EVERY π UNITS (PERIOD = π)
 - THE FUNCTION PASSES THROUGH THE ORIGIN $(0,0)$
 - SHAPE: S-SHAPED CURVES WITH STEEP SLOPES NEAR ASYMPTOTES
 - AMPLITUDE IS NOT BOUNDED; THE FUNCTION GROWS WITHOUT LIMIT NEAR ASYMPTOTES

2. $y = \csc x$

- TYPE: RECIPROCAL OF SINE FUNCTION
- DOMAIN: $x \neq n\pi$, WHERE n IS AN INTEGER
- RANGE: $y \leq -1$ OR $y \geq 1$
- KEY FEATURES:
 - VERTICAL ASYMPTOTES AT $x = n\pi$
 - THE GRAPH CONSISTS OF TWO BRANCHES PER PERIOD (ONE ABOVE $y=1$, ONE BELOW $y=-1$)
 - PASSES THROUGH POINTS LIKE $(\pi/2, 1)$ AND $(3\pi/2, -1)$
 - SYMMETRICAL ABOUT THE ORIGIN (ODD FUNCTION)

- THE GRAPH HAS "U" OR "N" SHAPED BRANCHES, WITH ASYMPTOTES ACTING AS BOUNDARIES

3. x^4

- TYPE: POLYNOMIAL FUNCTION (QUARTIC)
- DOMAIN: ALL REAL NUMBERS
- RANGE: $y \geq 0$
- KEY FEATURES:
 - EVEN FUNCTION, SYMMETRIC ABOUT THE Y-AXIS
 - THE GRAPH RESEMBLES A "U" SHAPE, WITH THE VERTEX AT THE ORIGIN
 - RAPIDLY INCREASES FOR LARGE POSITIVE OR NEGATIVE X
 - NO ASYMPTOTES
 - SMOOTH CURVE, NO OSCILLATIONS

ANALYZING THE GRAPHS AND MATCHING EQUATIONS

NOW, WE WILL EXAMINE THE THREE GRAPHS CAREFULLY, IDENTIFY THEIR DISTINCT FEATURES, AND DETERMINE THE CORRESPONDING EQUATIONS.

GRAPH 1: CHARACTERISTICS AND IDENTIFICATION

- OBSERVATIONS:
 - THE GRAPH SHOWS MULTIPLE VERTICAL ASYMPTOTES.
 - IT EXHIBITS AN S-SHAPED PATTERN WITH STEEP SLOPES APPROACHING THE ASYMPTOTES.
 - THE FUNCTION PASSES THROUGH THE ORIGIN.
 - THE PERIOD APPEARS TO BE CONSISTENT, WITH THE PATTERN REPEATING PERIODICALLY.
- ANALYSIS:
 - THE PRESENCE OF VERTICAL ASYMPTOTES AND PERIODICITY SUGGESTS A TRIGONOMETRIC FUNCTION.
 - THE S-SHAPED CURVES AND ASYMPTOTES ALIGN WITH THE BEHAVIOR OF THE TANGENT FUNCTION.
 - THE TANGENT FUNCTION HAS ASYMPTOTES AT $x = (\pi/2) + n\pi$, MATCHING THE OBSERVED ASYMPTOTES.
 - THE FUNCTION PASSES THROUGH $(0,0)$, CONSISTENT WITH $y=2 \tan x$.
- CONCLUSION:
 - GRAPH 1 CORRESPONDS TO $y = 2 \tan x$.

GRAPH 2: CHARACTERISTICS AND IDENTIFICATION

- OBSERVATIONS:
 - THE GRAPH FEATURES TWO BRANCHES PER PERIOD, ONE APPROACHING $y = 1$ AND THE OTHER $y = -1$.
 - THERE ARE VERTICAL ASYMPTOTES AT $x = n\pi$, WITH THE BRANCHES DIVERGING TO INFINITY NEAR THESE LINES.
 - THE GRAPH IS SYMMETRIC ABOUT THE ORIGIN, INDICATING AN ODD FUNCTION.
 - THE FUNCTION NEVER CROSSES $y = 0$.
- ANALYSIS:
 - THE PRESENCE OF ASYMPTOTES AT $x = n\pi$ AND THE SHAPE OF THE BRANCHES SUGGEST A RECIPROCAL SINE FUNCTION.
 - THE $\csc x$ FUNCTION HAS ASYMPTOTES AT ZEROS OF SINE, I.E., $x = n\pi$.
 - THE RANGE $y \leq -1$ OR $y \geq 1$ MATCHES THE OBSERVED BEHAVIOR.

- THE SYMMETRY ABOUT THE ORIGIN CONFIRMS THE ODD NATURE OF THE FUNCTION $y = \csc x$.
- CONCLUSION:
- GRAPH 2 CORRESPONDS TO $y = \csc x$.

GRAPH 3: CHARACTERISTICS AND IDENTIFICATION

- OBSERVATIONS:
 - THE GRAPH IS A SMOOTH, CONTINUOUS CURVE WITH NO ASYMPTOTES.
 - IT RESEMBLES A "U" SHAPE, OPENING UPWARDS, WITH THE LOWEST POINT AT THE ORIGIN.
 - SYMMETRIC ABOUT THE Y-AXIS.
 - THE FUNCTION INCREASES RAPIDLY AS $|x|$ INCREASES.
- ANALYSIS:
 - THE SYMMETRY ABOUT THE Y-AXIS INDICATES AN EVEN FUNCTION.
 - THE SHAPE RESEMBLES POLYNOMIAL BEHAVIOR, SPECIFICALLY QUARTIC FUNCTIONS LIKE x^4 .
 - THE DOMAIN INCLUDES ALL REAL NUMBERS, AND THE RANGE IS $y \geq 0$.
 - NO ASYMPTOTES OR OSCILLATIONS ARE PRESENT.
- CONCLUSION:
- GRAPH 3 CORRESPONDS TO x^4 .

SUMMARY OF EQUATION AND GRAPH MATCHING

GRAPH NUMBER	KEY FEATURES	CORRESPONDING EQUATION
1	VERTICAL ASYMPTOTES AT $x = (\pi/2) + n\pi$, S-SHAPED, PASSES THROUGH (0,0)	$y = 2 \tan x$
2	ASYMPTOTES AT $x = n\pi$, TWO BRANCHES, SYMMETRY ABOUT ORIGIN	$y = \csc x$
3	NO ASYMPTOTES, EVEN FUNCTION, "U" SHAPE, SYMMETRIC ABOUT Y-AXIS	x^4

CONCLUSION

MATCHING GRAPHS TO THEIR EQUATIONS IS A CRUCIAL SKILL IN MATHEMATICS, ESPECIALLY WHEN DEALING WITH FUNCTIONS INVOLVING TRIGONOMETRY AND POLYNOMIALS. BY ANALYZING FEATURES SUCH AS ASYMPTOTES, SYMMETRY, INTERCEPTS, AND OVERALL SHAPE, WE CAN ACCURATELY IDENTIFY THE EQUATIONS REPRESENTED BY GRAPHS.

- IN THIS CASE, THE THREE GRAPHS CORRESPOND TO THE FOLLOWING EQUATIONS:
- GRAPH 1: $y = 2 \tan x$
 - GRAPH 2: $y = \csc x$
 - GRAPH 3: x^4

UNDERSTANDING THESE RELATIONSHIPS ENHANCES COMPREHENSION OF HOW DIFFERENT FUNCTIONS BEHAVE AND HOW THEIR EQUATIONS TRANSLATE INTO VISUAL REPRESENTATIONS.

ADDITIONAL TIPS FOR GRAPH AND EQUATION IDENTIFICATION

- ALWAYS CHECK FOR ASYMPTOTES TO DISTINGUISH BETWEEN TANGENT AND RECIPROCAL TRIGONOMETRIC FUNCTIONS.
- SYMMETRY ABOUT AXES CAN HELP IDENTIFY EVEN OR ODD FUNCTIONS.
- RANGE RESTRICTIONS CAN NARROW DOWN POSSIBILITIES.
- THE PRESENCE OF POLYNOMIAL BEHAVIOR SUGGESTS SMOOTH, CONTINUOUS CURVES WITHOUT ASYMPTOTES.
- RECOGNIZE PERIODIC BEHAVIORS VERSUS POLYNOMIAL GROWTH.

BY MASTERING THESE CONCEPTS, STUDENTS AND ENTHUSIASTS CAN DEVELOP A STRONG INTUITION FOR INTERPRETING GRAPHS AND LINKING THEM TO THEIR ALGEBRAIC EXPRESSIONS, A VITAL SKILL IN ADVANCED MATHEMATICS AND APPLIED SCIENCES.

FREQUENTLY ASKED QUESTIONS

GIVEN A GRAPH THAT SHOWS A PERIODIC CURVE WITH VERTICAL ASYMPTOTES AT REGULAR INTERVALS, WHICH EQUATION AMONG $y=2 \tan x$, $y= \csc x$, OR x^4 BEST REPRESENTS THIS GRAPH?

$$y = 2 \tan x$$

IF A GRAPH EXHIBITS A SHAPE WITH UNDEFINED POINTS AT ODD MULTIPLES OF $\pi/2$ AND REPEATS PERIODICALLY, WHICH OF THE FOLLOWING EQUATIONS MATCHES THIS BEHAVIOR: $y = 2 \tan x$, $y= \csc x$, OR x^4 ?

$$y = 2 \tan x$$

A GRAPH SHOWS A CURVE WITH PEAKS AND VALLEYS RESEMBLING THE RECIPROCAL OF SINE, WITH VERTICAL ASYMPTOTES AT MULTIPLES OF π , WHICH EQUATION CORRESPONDS TO THIS GRAPH?

$$y= \csc x$$

CONSIDERING A GRAPH THAT IS SYMMETRIC ABOUT THE ORIGIN WITH RAPIDLY INCREASING AND DECREASING BEHAVIOR NEAR CERTAIN POINTS, WHICH EQUATION AMONG THE OPTIONS IS MOST APPROPRIATE: $y=2 \tan x$, $y= \csc x$, OR x^4 ?

$$y= \csc x$$

FOR A GRAPH THAT IS A SMOOTH, EVEN FUNCTION WITH NO ASYMPTOTES AND INCREASING RAPIDLY AS x MOVES AWAY FROM ZERO, WHICH EQUATION BEST FITS: $y=2 \tan x$, $y= \csc x$, OR x^4 ?

$$x^4$$

ADDITIONAL RESOURCES

UNDERSTANDING THE RELATIONSHIP BETWEEN GRAPHS AND EQUATIONS: A COMPREHENSIVE GUIDE

WHEN ANALYZING MATHEMATICAL FUNCTIONS, THE ABILITY TO MATCH A GRAPH TO ITS CORRESPONDING EQUATION IS AN ESSENTIAL SKILL. THIS PROCESS INVOLVES UNDERSTANDING THE KEY FEATURES AND BEHAVIORS OF VARIOUS TYPES OF GRAPHS, ESPECIALLY TRIGONOMETRIC FUNCTIONS, AND THEN IDENTIFYING WHICH EQUATION BEST DESCRIBES THEIR SHAPE AND PROPERTIES. IN THIS GUIDE, WE WILL EXPLORE THREE GRAPHS, EACH REPRESENTING DIFFERENT FUNCTIONS, AND DEMONSTRATE HOW TO DETERMINE THEIR EQUATIONS FROM A PROVIDED LIST:

- $y = 2 \tan x$
- $y = \csc x$
- x^4

BY THOROUGHLY EXAMINING THE CHARACTERISTICS OF THESE FUNCTIONS AND THEIR GRAPHS, YOU WILL GAIN A CLEARER UNDERSTANDING OF HOW TO APPROACH SIMILAR PROBLEMS IN YOUR STUDIES OR PROFESSIONAL WORK.

THE IMPORTANCE OF RECOGNIZING GRAPHS AND EQUATIONS

GRAPH RECOGNITION IS A FUNDAMENTAL ASPECT OF UNDERSTANDING MATHEMATICAL FUNCTIONS. IT HELPS IN:

- VISUALIZING THE BEHAVIOR OF FUNCTIONS
- SOLVING EQUATIONS GRAPHICALLY
- ANALYZING LIMITS, ASYMPTOTES, AND INTERCEPTS
- APPLYING FUNCTIONS IN REAL-WORLD SCENARIOS

IN PARTICULAR, TRIGONOMETRIC FUNCTIONS LIKE TANGENT AND COSECANT EXHIBIT DISTINCTIVE BEHAVIORS, MAKING THEM EASIER TO IDENTIFY ONCE THEIR KEY FEATURES ARE UNDERSTOOD.

OVERVIEW OF THE GIVEN EQUATIONS

BEFORE DIVING INTO THE GRAPHS, LET'S BRIEFLY REVIEW EACH OF THE EQUATIONS:

1. $y = 2 \tan x$

- TYPE: TRIGONOMETRIC FUNCTION (TANGENT)
- FEATURES:
- PERIOD: π
- VERTICAL ASYMPTOTES AT $x = \frac{\pi}{2} + n\pi$
- RANGE: $(-\infty, \infty)$
- SYMMETRIC ABOUT THE ORIGIN (ODD FUNCTION)
- STEEPNESS DOUBLED COMPARED TO $y = \tan x$

2. $y = \csc x$

- TYPE: TRIGONOMETRIC FUNCTION (COSECANT)
- FEATURES:
- DEFINED AS $y = \frac{1}{\sin x}$
- VERTICAL ASYMPTOTES AT POINTS WHERE $\sin x = 0$, I.E., $x = n\pi$
- RANGE: $(-\infty, -1] \cup [1, \infty)$
- NO X-INTERCEPTS (SINCE $\sin x = 0$ THERE)
- SYMMETRIC ABOUT THE ORIGIN (ODD FUNCTION)

3. x^4

- TYPE: POLYNOMIAL FUNCTION
- FEATURES:
- EVEN FUNCTION
- U-SHAPED PARABOLA-LIKE CURVE BUT STEEPER AT INFINITY
- NO ASYMPTOTES
- ALWAYS NON-NEGATIVE
- CRITICAL POINT AT $(x=0)$, WHERE IT ATTAINS A MINIMUM (VALUE 0)

ANALYZING THE GRAPHS: KEY FEATURES TO OBSERVE

WHEN GIVEN THREE GRAPHS, IDENTIFYING THEIR EQUATIONS REQUIRES CAREFUL OBSERVATION OF CERTAIN FEATURES:

1. GRAPH BEHAVIOR AT ASYMPTOTES

- VERTICAL ASYMPTOTES SUGGEST FUNCTIONS LIKE $(\tan x)$ OR $(\csc x)$
- THE LOCATION OF THESE ASYMPTOTES HELPS DISTINGUISH BETWEEN THEM

2. RANGE AND DOMAIN

- IS THE GRAPH BOUNDED OR UNBOUNDED?
- DOES IT EXTEND TO INFINITY IN EITHER DIRECTION?

3. SYMMETRY

- IS THE GRAPH SYMMETRIC ABOUT THE ORIGIN (ODD FUNCTION) OR THE Y-AXIS (EVEN FUNCTION)?
- TRIGONOMETRIC FUNCTIONS OFTEN DISPLAY SYMMETRY

4. INTERCEPTS

- DOES THE GRAPH CROSS THE X-AXIS OR Y-AXIS?
- FOR EXAMPLE, $(y = \csc x)$ DOES NOT CROSS THE X-AXIS

5. SHAPE AND STEEPNESS

- THE STEEPNESS OF THE GRAPH NEAR ASYMPTOTES INDICATES THE COEFFICIENT IN THE TANGENT FUNCTION
- POLYNOMIAL GRAPHS LIKE (x^4) HAVE A CHARACTERISTIC U-SHAPE

STEP-BY-STEP IDENTIFICATION PROCESS

STEP 1: EXAMINE THE FIRST GRAPH

- LOOK FOR ASYMPTOTES: ARE THERE VERTICAL LINES WHERE THE GRAPH TENDS TOWARD INFINITY?
- RANGE: DOES THE GRAPH EXTEND INFINITELY UPWARDS AND DOWNWARDS?
- SYMMETRY: IS THE GRAPH SYMMETRIC ABOUT THE ORIGIN?
- SHAPE: IS IT A SMOOTH CURVE OR DOES IT HAVE SHARP BREAKS?

SAMPLE ANALYSIS:

SUPPOSE THE FIRST GRAPH SHOWS VERTICAL ASYMPTOTES AT $(x = \pm \frac{\pi}{2})$, WITH THE GRAPH APPROACHING INFINITY ON BOTH SIDES AND PASSING THROUGH THE ORIGIN. THIS SUGGESTS IT'S LIKELY THE GRAPH OF $(y = 2 \tan x)$.

STEP 2: EXAMINE THE SECOND GRAPH

- ASYMPTOTES AT MULTIPLES OF (π) : CHECK IF THE VERTICAL ASYMPTOTES ARE AT $(x = n\pi)$.
- RANGE: DOES THE GRAPH STAY OUTSIDE THE INTERVAL $(-1, 1)$?
- SHAPE: DOES IT RESEMBLE THE RECIPROCAL OF SINE, I.E., COSECANT?

SAMPLE ANALYSIS:

IF THE GRAPH HAS ASYMPTOTES AT $\{x=0, \pm\pi, \pm 2\pi\}$, AND THE BRANCHES ARE OUTSIDE THE INTERVAL $[-1, 1]$, THEN IT PROBABLY CORRESPONDS TO $y = \csc x$.

STEP 3: EXAMINE THE THIRD GRAPH

- BEHAVIOR AT LARGE $|x|$: DOES IT GROW WITHOUT BOUND?
- SHAPE: IS IT A PARABOLA-LIKE CURVE OPENING UPWARDS?
- SYMMETRY: IS IT SYMMETRIC ABOUT THE Y-AXIS?

SAMPLE ANALYSIS:

A GRAPH THAT LOOKS LIKE A U-SHAPED CURVE WITH NO ASYMPTOTES AND AN EVEN SYMMETRY POINTS TO $y = x^4$.

DETAILED ANALYSIS OF EACH FUNCTION

1. GRAPH OF $y = 2 \tan x$

- PERIODICITY: REPEATS EVERY π
- ASYMPTOTES: VERTICAL LINES AT $x = \pm\frac{\pi}{2} + n\pi$
- SHAPE: S-SHAPED CURVES PASSING THROUGH THE ORIGIN
- STEEPNESS: LARGER COEFFICIENT (2) MAKES THE GRAPH STEEPER NEAR ASYMPTOTES
- RANGE: ENTIRE REAL LINE

KEY IDENTIFICATION TIP: LOOK FOR GRAPHS WITH ASYMPTOTES EVENLY SPACED AT $\pm\frac{\pi}{2}$, AND S-SHAPED CURVES THAT TEND TOWARD INFINITY NEAR THESE LINES.

2. GRAPH OF $y = \csc x$

- PERIODICITY: REPEATS EVERY 2π
- ASYMPTOTES: AT $x = n\pi$, WHERE $\sin x = 0$
- SHAPE: TWO BRANCHES PER PERIOD, APPROACHING ASYMPTOTES FROM ABOVE OR BELOW
- RANGE: $(-\infty, -1] \cup [1, \infty)$

KEY IDENTIFICATION TIP: LOOK FOR GRAPHS WITH ASYMPTOTES AT MULTIPLES OF π , WITH BRANCHES THAT STAY OUTSIDE THE INTERVAL $[-1, 1]$.

3. GRAPH OF $y = x^4$

- SHAPE: U-SHAPED, SYMMETRIC ABOUT THE Y-AXIS
- BEHAVIOR: APPROACHES INFINITY AS $|x| \rightarrow \infty$
- MINIMUM: AT $x=0$, WHERE $y=0$

KEY IDENTIFICATION TIP: A SMOOTH, CONVEX CURVE WITH NO ASYMPTOTES, CENTERED AT THE ORIGIN, WITH A MINIMUM AT $x=0$.

SUMMARY TABLE FOR QUICK REFERENCE

FEATURE	$y = 2 \tan x$	$y = \csc x$	$y = x^4$
ASYMPTOTES	AT $x = \pm\frac{\pi}{2} + n\pi$	AT $x = n\pi$	NONE
RANGE	$(-\infty, \infty)$	$(-\infty, -1] \cup [1, \infty)$	$[0, \infty)$

| SYMMETRY | ODD | ODD | EVEN |
| SHAPE | S-SHAPED CURVES WITH BREAKS | TWO BRANCHES WITH VERTICAL ASYMPTOTES | U-SHAPED PARABOLA-LIKE |

PRACTICAL TIPS FOR MATCHING GRAPHS TO EQUATIONS

- CHECK FOR ASYMPTOTES: THE PRESENCE AND LOCATION ARE THE MOST DISTINCTIVE FEATURES.
- ASSESS THE RANGE: WHETHER THE GRAPH COVERS ALL REAL NUMBERS OR ONLY A SUBSET.
- NOTE SYMMETRY: ODD FUNCTIONS ARE SYMMETRIC ABOUT THE ORIGIN; EVEN FUNCTIONS ARE SYMMETRIC ABOUT THE Y-AXIS.
- IDENTIFY PERIODICITY: REPEATING PATTERNS INDICATE TRIGONOMETRIC FUNCTIONS.
- OBSERVE THE SHAPE: POLYNOMIAL FUNCTIONS HAVE SMOOTH, CONTINUOUS CURVES WITHOUT ASYMPTOTES.

FINAL THOUGHTS

MATCHING GRAPHS TO THEIR EQUATIONS IS A SKILL THAT COMBINES VISUAL ANALYSIS WITH A SOLID UNDERSTANDING OF FUNCTION PROPERTIES. RECOGNIZING KEY FEATURES SUCH AS ASYMPTOTES, SYMMETRY, AND THE GENERAL SHAPE CAN QUICKLY LEAD YOU TO THE CORRECT EQUATION. AS YOU PRACTICE WITH DIFFERENT GRAPHS, YOUR INTUITION AND ANALYTICAL SKILLS WILL IMPROVE, MAKING YOU MORE PROFICIENT IN IDENTIFYING COMPLEX FUNCTIONS.

REMEMBER, ALWAYS CONSIDER THE UNIQUE CHARACTERISTICS OF EACH TYPE OF FUNCTION, AND USE THE FEATURES OBSERVED IN THE GRAPH AS CLUES TO DETERMINE ITS UNDERLYING EQUATION. WITH PATIENCE AND PRACTICE, YOU'LL MASTER THE ART OF ANALYZING AND MATCHING FUNCTIONS WITH CONFIDENCE.

HAPPY GRAPHING AND EQUATION MATCHING!

Three Graphs Are Given Below For Each Choose Its Equation From The Following Y 2 Tanxy Cscxx4equation Choose

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