

SOMEONE HELP ME WITH THIS QUADRATIC FUNCTION GRAPH FUNCTION QUESTION

SOMEONE HELP ME WITH THIS QUADRATIC FUNCTION GRAPH FUNCTION QUESTION IS A COMMON PLEA AMONG STUDENTS GRAPPLING WITH UNDERSTANDING THE INTRICACIES OF QUADRATIC FUNCTIONS AND THEIR GRAPHICAL REPRESENTATIONS. QUADRATIC FUNCTIONS ARE FUNDAMENTAL IN ALGEBRA AND CALCULUS, SERVING AS BUILDING BLOCKS FOR UNDERSTANDING MORE COMPLEX MATHEMATICAL CONCEPTS. IF YOU'RE FEELING OVERWHELMED BY THE TASK OF SKETCHING A QUADRATIC GRAPH, INTERPRETING ITS FEATURES, OR SOLVING RELATED PROBLEMS, YOU'RE NOT ALONE. THIS COMPREHENSIVE GUIDE AIMS TO CLARIFY THE ESSENTIAL ASPECTS OF QUADRATIC FUNCTIONS, PROVIDE STRATEGIES FOR GRAPHING, AND OFFER TIPS TO TACKLE COMMON QUESTIONS EFFECTIVELY.

UNDERSTANDING THE BASICS OF QUADRATIC FUNCTIONS

BEFORE DIVING INTO GRAPHING TECHNIQUES OR SOLVING SPECIFIC PROBLEMS, IT'S CRUCIAL TO UNDERSTAND WHAT A QUADRATIC FUNCTION IS AND ITS STANDARD FORM.

WHAT IS A QUADRATIC FUNCTION?

A QUADRATIC FUNCTION IS A POLYNOMIAL FUNCTION OF DEGREE 2, TYPICALLY EXPRESSED IN THE FORM:

$$f(x) = ax^2 + bx + c$$

WHERE:

- $a \neq 0$ (IF $a = 0$, THE FUNCTION BECOMES LINEAR),
- b AND c ARE CONSTANTS.

THE GRAPH OF A QUADRATIC FUNCTION IS CALLED A PARABOLA, WHICH CAN OPEN UPWARD OR DOWNWARD DEPENDING ON THE SIGN OF a .

KEY FEATURES OF A QUADRATIC FUNCTION

UNDERSTANDING THE GRAPH'S FEATURES HELPS IN SKETCHING AND ANALYZING QUADRATIC FUNCTIONS:

- VERTEX: THE HIGHEST OR LOWEST POINT ON THE PARABOLA.
- AXIS OF SYMMETRY: THE VERTICAL LINE DIVIDING THE PARABOLA INTO TWO MIRROR IMAGES.
- Y-INTERCEPT: THE POINT WHERE THE GRAPH CROSSES THE Y-AXIS.
- X-INTERCEPTS (ROOTS OR ZEROS): POINTS WHERE THE GRAPH CROSSES THE X-AXIS.
- DIRECTION OF OPENING: UPWARD IF $a > 0$, DOWNWARD IF $a < 0$.

GRAPHING A QUADRATIC FUNCTION: STEP-BY-STEP APPROACH

WHEN ASKED TO GRAPH A QUADRATIC FUNCTION, FOLLOWING A SYSTEMATIC APPROACH CAN MAKE THE PROCESS MANAGEABLE AND ACCURATE.

STEP 1: IDENTIFY THE STANDARD FORM

ENSURE YOUR QUADRATIC FUNCTION IS IN THE FORM $y = ax^2 + bx + c$. IF NOT, REARRANGE IT ACCORDINGLY.

STEP 2: FIND THE VERTEX

THE VERTEX IS A CRUCIAL POINT THAT DETERMINES THE PARABOLA'S SHAPE AND POSITION.

- USING THE VERTEX FORMULA:

$$x_v = -\frac{b}{2a}$$

- CALCULATE THE CORRESPONDING Y-VALUE:

$$y_v = f(x_v) = ax_v^2 + bx_v + c$$

- PLOT THE VERTEX (x_v, y_v) .

STEP 3: DETERMINE THE AXIS OF SYMMETRY

THIS VERTICAL LINE PASSES THROUGH THE VERTEX:

$$x = x_v$$

IT HELPS IN PLOTTING SYMMETRIC POINTS ON EITHER SIDE.

STEP 4: FIND THE Y-INTERCEPT

SET $(x = 0)$:

$$y = c$$

PLOT THIS POINT $(0, c)$.

STEP 5: FIND THE X-INTERCEPTS (IF ANY)

SOLVE THE QUADRATIC EQUATION $(ax^2 + bx + c = 0)$ USING THE QUADRATIC FORMULA:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

- IF THE DISCRIMINANT $(D = b^2 - 4ac > 0)$, THERE ARE TWO REAL ROOTS.
- IF $(D = 0)$, ONE REAL ROOT (PARABOLA TOUCHES X-AXIS).
- IF $(D < 0)$, NO REAL ROOTS (PARABOLA DOES NOT CROSS X-AXIS).

PLOT THE X-INTERCEPTS ACCORDINGLY.

STEP 6: SKETCH THE PARABOLA

USE THE VERTEX, INTERCEPTS, AND SYMMETRY TO DRAW A SMOOTH PARABOLA.

UNDERSTANDING THE DISCRIMINANT AND ITS ROLE IN GRAPHING

THE DISCRIMINANT $(D = b^2 - 4ac)$ PROVIDES VITAL INFORMATION ABOUT THE NATURE OF THE ROOTS AND THE GRAPH'S INTERSECTIONS WITH THE X-AXIS.

INTERPRETING THE DISCRIMINANT

- POSITIVE $(D > 0)$: TWO REAL ROOTS; PARABOLA CROSSES THE X-AXIS AT TWO POINTS.
- ZERO $(D = 0)$: ONE REAL ROOT; PARABOLA TOUCHES THE X-AXIS AT THE VERTEX.
- NEGATIVE $(D < 0)$: NO REAL ROOTS; PARABOLA DOES NOT CROSS THE X-AXIS.

KNOWING THIS HELPS AVOID UNNECESSARY CALCULATIONS AND GUIDES YOUR GRAPHING PROCESS.

COMMON QUESTIONS AND TROUBLESHOOTING

WHEN WORKING ON QUADRATIC FUNCTIONS, STUDENTS OFTEN FACE SPECIFIC CHALLENGES OR HAVE QUESTIONS. HERE'S A LIST OF COMMON ISSUES AND SOLUTIONS.

1. HOW DO I FIND THE VERTEX QUICKLY?

USE THE VERTEX FORMULA $(x = -\frac{b}{2a})$ TO FIND THE X-COORDINATE, THEN SUBSTITUTE BACK INTO THE ORIGINAL FUNCTION TO FIND THE Y-COORDINATE.

2. WHAT IF THE QUADRATIC IS NOT IN STANDARD FORM?

REARRANGE OR EXPAND THE EXPRESSION TO MATCH $(y = ax^2 + bx + c)$. COMPLETING THE SQUARE IS ANOTHER METHOD TO FIND THE VERTEX IF NEEDED.

3. HOW DO I DETERMINE WHETHER THE PARABOLA OPENS UPWARD OR DOWNWARD?

CHECK THE SIGN OF (a) :

- $(a > 0)$: OPENS UPWARD.
- $(a < 0)$: OPENS DOWNWARD.

4. HOW CAN I FIND THE POINTS WHERE THE PARABOLA INTERSECTS THE AXES?

- Y-INTERCEPT: SET $(x=0)$.
- X-INTERCEPTS: SOLVE $(ax^2 + bx + c=0)$ USING THE QUADRATIC FORMULA.

5. WHAT IF THERE ARE NO REAL X-INTERCEPTS?

THE PARABOLA DOES NOT CROSS THE X-AXIS. THE VERTEX IS EITHER ABOVE OR BELOW THE X-AXIS, BUT NO REAL SOLUTIONS EXIST FOR $(y=0)$.

ADDITIONAL TIPS FOR MASTERING QUADRATIC GRAPHS

- USE GRAPHING CALCULATORS OR SOFTWARE: TOOLS LIKE DESMOS, GEOGEBRA, OR GRAPHING CALCULATORS CAN HELP

VISUALIZE THE PARABOLA QUICKLY.

- PRACTICE WITH DIFFERENT FORMS: FAMILIARIZE YOURSELF WITH VERTEX FORM $(y = a(x-h)^2 + k)$ FOR EASIER GRAPHING.
- CHECK SYMMETRY: REMEMBER THE PARABOLA IS SYMMETRIC ABOUT ITS AXIS OF SYMMETRY.
- LABEL KEY POINTS: CLEARLY MARK THE VERTEX, INTERCEPTS, AND AXIS OF SYMMETRY TO CREATE AN ACCURATE AND UNDERSTANDABLE GRAPH.
- UNDERSTAND REAL-WORLD APPLICATIONS: RECOGNIZING HOW QUADRATIC FUNCTIONS MODEL REAL PHENOMENA CAN DEEPEN UNDERSTANDING AND MOTIVATION.

CONCLUSION: OVERCOMING THE CHALLENGE

IF YOU FIND YOURSELF ASKING, "SOMEONE HELP ME WITH THIS QUADRATIC FUNCTION GRAPH QUESTION," REMEMBER THAT MASTERING QUADRATIC GRAPHS IS A STEP-BY-STEP PROCESS THAT BECOMES CLEARER WITH PRACTICE. BREAK DOWN THE PROBLEM INTO MANAGEABLE PARTS: IDENTIFY KEY FEATURES, FIND THE VERTEX, INTERCEPTS, AND THEN SKETCH. USE AVAILABLE TOOLS FOR VISUALIZATION, AND DON'T HESITATE TO REVISIT FUNDAMENTAL CONCEPTS LIKE THE QUADRATIC FORMULA AND DISCRIMINANT. WITH PATIENCE AND SYSTEMATIC EFFORT, YOU'LL DEVELOP CONFIDENCE IN GRAPHING QUADRATIC FUNCTIONS AND SOLVING RELATED PROBLEMS. KEEP PRACTICING, AND SOON YOU'LL BE ABLE TO HANDLE EVEN THE MOST CHALLENGING QUADRATIC QUESTIONS WITH EASE.

FREQUENTLY ASKED QUESTIONS

HOW DO I FIND THE VERTEX OF A QUADRATIC FUNCTION GIVEN ITS GRAPH?

TO FIND THE VERTEX OF A QUADRATIC FUNCTION FROM ITS GRAPH, LOCATE THE HIGHEST OR LOWEST POINT ON THE PARABOLA; THE COORDINATES OF THIS POINT ARE THE VERTEX. ALTERNATIVELY, IF THE QUADRATIC IS IN VERTEX FORM $y = a(x - h)^2 + k$, THEN (h, k) IS THE VERTEX.

WHAT IS THE BEST WAY TO DETERMINE THE AXIS OF SYMMETRY FOR A QUADRATIC GRAPH?

THE AXIS OF SYMMETRY IS A VERTICAL LINE THAT PASSES THROUGH THE VERTEX. ITS EQUATION CAN BE FOUND USING SYMMETRY PROPERTIES OR FROM THE QUADRATIC IN STANDARD FORM AS $x = -b/(2a)$.

HOW CAN I GRAPH A QUADRATIC FUNCTION QUICKLY USING THE INTERCEPTS?

IDENTIFY THE Y-INTERCEPT BY PLUGGING $x=0$ INTO THE EQUATION, AND FIND THE X-INTERCEPTS BY SOLVING FOR x WHEN $y=0$. PLOT THESE POINTS, THEN USE THE VERTEX AS A GUIDE TO SKETCH THE PARABOLA ACCURATELY.

WHAT DOES THE SIGN OF THE COEFFICIENT 'A' TELL ME ABOUT THE PARABOLA'S SHAPE?

IF 'A' IS POSITIVE, THE PARABOLA OPENS UPWARD (U-SHAPED). IF 'A' IS NEGATIVE, IT OPENS DOWNWARD (N-SHAPED). THIS INDICATES THE DIRECTION OF THE PARABOLA'S ARMS.

HOW DO I CONVERT A QUADRATIC FUNCTION FROM STANDARD FORM TO VERTEX FORM?

COMPLETE THE SQUARE ON THE STANDARD FORM $y = ax^2 + bx + c$ TO REWRITE IT AS $y = a(x - h)^2 + k$, WHERE (h, k) IS THE VERTEX. THIS INVOLVES FACTORING OUT 'A' AND ADJUSTING THE EXPRESSION INSIDE THE PARENTHESES.

WHAT IS THE SIGNIFICANCE OF THE QUADRATIC FUNCTION'S DISCRIMINANT IN RELATION

TO ITS GRAPH?

THE DISCRIMINANT, GIVEN BY $b^2 - 4ac$, DETERMINES THE NUMBER OF REAL X-INTERCEPTS. IF IT'S POSITIVE, THERE ARE TWO REAL ROOTS; IF ZERO, ONE REAL ROOT (TANGENT POINT); IF NEGATIVE, NO REAL ROOTS (GRAPH DOES NOT CROSS X-AXIS).

HOW CAN I DETERMINE IF MY QUADRATIC GRAPH IS A PERFECT SQUARE TRINOMIAL?

A QUADRATIC IS A PERFECT SQUARE TRINOMIAL IF IT CAN BE WRITTEN AS $(ax + b)^2$. ON THE GRAPH, THIS RESULTS IN A PARABOLA WITH A VERTEX AT THE MINIMUM OR MAXIMUM POINT AND SYMMETRY ABOUT THE AXIS OF SYMMETRY.

WHAT TOOLS OR METHODS CAN I USE TO CHECK IF MY QUADRATIC GRAPH IS ACCURATE?

USE GRAPHING CALCULATORS OR SOFTWARE LIKE DESMOS TO PLOT THE QUADRATIC. COMPARE KEY POINTS, INTERCEPTS, AND THE VERTEX WITH YOUR GRAPH. ADDITIONALLY, SOLVING ALGEBRAICALLY FOR ROOTS AND VERTEX HELPS VERIFY ACCURACY.

HOW DO I INTERPRET THE INTERCEPTS AND VERTEX TO UNDERSTAND THE OVERALL BEHAVIOR OF THE QUADRATIC GRAPH?

THE Y-INTERCEPT SHOWS WHERE THE GRAPH CROSSES THE Y-AXIS; THE X-INTERCEPTS SHOW WHERE IT CROSSES THE X-AXIS. THE VERTEX INDICATES THE MAXIMUM OR MINIMUM POINT. TOGETHER, THEY HELP YOU UNDERSTAND THE PARABOLA'S SHAPE, DIRECTION, AND KEY FEATURES.

ADDITIONAL RESOURCES

SOMEONE HELP ME WITH THIS QUADRATIC FUNCTION GRAPH QUESTION: A COMPREHENSIVE GUIDE TO UNDERSTANDING AND SOLVING QUADRATIC GRAPH PROBLEMS

INTRODUCTION TO QUADRATIC FUNCTIONS

QUADRATIC FUNCTIONS ARE FUNDAMENTAL IN ALGEBRA AND COORDINATE GEOMETRY, REPRESENTING PARABOLAS WHEN GRAPHED ON THE COORDINATE PLANE. THEY OFTEN APPEAR IN VARIOUS MATHEMATICAL PROBLEMS, FROM BASIC GRAPHING EXERCISES TO COMPLEX REAL-WORLD APPLICATIONS. UNDERSTANDING HOW TO INTERPRET, ANALYZE, AND GRAPH QUADRATIC FUNCTIONS IS ESSENTIAL FOR STUDENTS AND PROFESSIONALS ALIKE.

UNDERSTANDING THE STANDARD FORM OF A QUADRATIC FUNCTION

A QUADRATIC FUNCTION IS GENERALLY EXPRESSED IN THE STANDARD FORM:

$$y = ax^2 + bx + c$$

WHERE:

- $a \neq 0$,
- b AND c ARE REAL NUMBERS.

KEY COMPONENTS:

- LEADING COEFFICIENT (a) : DETERMINES THE PARABOLA'S DIRECTION AND WIDTH.
- If $(a > 0)$, THE PARABOLA OPENS UPWARD.
- If $(a < 0)$, IT OPENS DOWNWARD.
- THE LARGER THE ABSOLUTE VALUE OF (a) , THE NARROWER THE PARABOLA.
- VERTEX: THE HIGHEST OR LOWEST POINT ON THE PARABOLA, DEPENDING ON THE DIRECTION.
- AXIS OF SYMMETRY: A VERTICAL LINE THAT PASSES THROUGH THE VERTEX, DIVIDING THE PARABOLA INTO MIRROR IMAGES.
- Y-INTERCEPT: THE POINT WHERE THE PARABOLA CROSSES THE Y-AXIS, FOUND BY SUBSTITUTING $(x=0)$.

KEY CONCEPTS FOR GRAPHING QUADRATIC FUNCTIONS

VERTEX FORM OF A QUADRATIC FUNCTION

THE VERTEX FORM PROVIDES AN ALTERNATIVE WAY TO EXPRESS QUADRATIC FUNCTIONS:

$$[y = a(x - h)^2 + k]$$

WHERE:

- (h, k) IS THE VERTEX OF THE PARABOLA.
- (a) DETERMINES THE OPENING DIRECTION AND WIDTH.

ADVANTAGES:

- DIRECT IDENTIFICATION OF THE VERTEX.
- EASIER TO GRAPH WHEN THE VERTEX IS KNOWN.

FINDING THE VERTEX

- FOR THE STANDARD FORM $(y = ax^2 + bx + c)$, THE VERTEX'S X-COORDINATE IS:

$$[x = -\frac{b}{2a}]$$

- THE Y-COORDINATE IS OBTAINED BY SUBSTITUTING THIS (x) BACK INTO THE FUNCTION:

$$[y = a\left(-\frac{b}{2a}\right)^2 + b\left(-\frac{b}{2a}\right) + c]$$

- ALTERNATIVELY, IN VERTEX FORM, THE VERTEX IS DIRECTLY GIVEN AS (h, k) .

AXIS OF SYMMETRY

- THE LINE $(x = -\frac{b}{2a})$ ACTS AS THE AXIS OF SYMMETRY.
- IT PASSES THROUGH THE VERTEX AND DIVIDES THE PARABOLA INTO TWO MIRROR IMAGES.

Y-INTERCEPT

- FOUND BY SETTING $(x = 0)$:

$$[y = c]$$

- THE Y-INTERCEPT IS AT $(0, c)$.

X-INTERCEPTS (ROOTS OR ZEROS)

- FOUND BY SOLVING:

$$[ax^2 + bx + c = 0]$$

- USING THE QUADRATIC FORMULA:

$$[x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}]$$

- DISCRIMINANT $(D = b^2 - 4ac)$:

- If $(D > 0)$: TWO REAL ROOTS.
- If $(D = 0)$: ONE REAL ROOT (PARABOLA TOUCHES X-AXIS AT VERTEX).
- If $(D < 0)$: NO REAL ROOTS (PARABOLA DOES NOT CROSS X-AXIS).

STEP-BY-STEP APPROACH TO GRAPHING A QUADRATIC FUNCTION

STEP 1: IDENTIFY THE FORM OF THE QUADRATIC

- DETERMINE WHETHER THE FUNCTION IS IN STANDARD FORM $(y = ax^2 + bx + c)$ OR VERTEX FORM $(y = a(x - h)^2 + k)$.
- THIS GUIDES HOW YOU FIND KEY FEATURES.

STEP 2: FIND THE VERTEX

- IF IN STANDARD FORM, COMPUTE $(x = -\frac{b}{2a})$, THEN FIND (y) .
- IF IN VERTEX FORM, THE VERTEX IS DIRECTLY GIVEN AS (h, k) .

STEP 3: DETERMINE THE AXIS OF SYMMETRY

- USE $(x = -\frac{b}{2a})$.

STEP 4: FIND THE Y-INTERCEPT

- SUBSTITUTE $(x = 0)$ INTO THE FUNCTION TO FIND (y) .

STEP 5: FIND THE X-INTERCEPTS (IF ANY)

- SOLVE THE QUADRATIC EQUATION FOR (x) USING THE QUADRATIC FORMULA OR FACTORING, IF POSSIBLE.

STEP 6: PLOT KEY POINTS

- PLOT THE VERTEX, Y-INTERCEPT, AND X-INTERCEPTS.

- Additionally, select a few x -values around the vertex to get a more detailed graph.

STEP 7: DRAW THE PARABOLA

- Use the plotted points to sketch the parabola smoothly.
- Remember the parabola's symmetry about the axis of symmetry.

COMMON CHALLENGES AND HOW TO OVERCOME THEM

1. DIFFICULTY IN IDENTIFYING THE VERTEX OR AXIS OF SYMMETRY

- Solution: Practice converting between standard and vertex form.
- Practice calculating the vertex using the formula $\left(-\frac{b}{2a}\right)$.

2. FINDING X-INTERCEPTS

- Solution: Use the quadratic formula diligently.
- Be cautious with the discriminant; if negative, understand the parabola does not cross the x-axis.

3. GRAPHING NARROW OR WIDE PARABOLAS

- Solution: Pay attention to the value of a .
- For narrow parabolas, plot more points for accuracy.

4. DEALING WITH COMPLEX OR NON-FACTORABLE QUADRATICS

- Solution: Use the quadratic formula or completing the square method.

ANALYZING THE GRAPH FOR KEY FEATURES

Once the parabola is graphed, analyze it for:

- Vertex: Highest or lowest point.
- Axis of symmetry: Vertical line through the vertex.
- Intercepts: Where the parabola crosses axes.
- Direction: Upward or downward opening.
- Width: Narrow or wide, based on a .

This analysis helps in understanding the quadratic's behavior and solving related problems.

REAL-WORLD APPLICATIONS AND PROBLEM-SOLVING STRATEGIES

Quadratic functions are prevalent in physics (projectile motion), economics (profit maximization), engineering, and more. When faced with a problem involving a quadratic function:

- TRANSLATE REAL-WORLD DATA INTO A QUADRATIC MODEL.
- IDENTIFY KEY POINTS AND FEATURES AS PER THE PROBLEM'S NEEDS.
- USE GRAPHING TECHNIQUES TO VISUALIZE THE SITUATION.
- APPLY THE QUADRATIC FORMULA OR VERTEX ANALYSIS TO FIND OPTIMAL POINTS OR SOLUTIONS.

PRACTICE PROBLEMS AND EXAMPLES

EXAMPLE 1:

GIVEN THE QUADRATIC FUNCTION $(y = 2x^2 - 8x + 5)$, GRAPH IT AND FIND ITS KEY FEATURES.

SOLUTION STEPS:

- $(a = 2)$, $(b = -8)$, $(c = 5)$.
 - VERTEX (x) -COORDINATE: $(-\frac{-8}{2 \times 2} = \frac{8}{4} = 2)$.
 - VERTEX (y) -COORDINATE: $(y = 2(2)^2 - 8(2) + 5 = 2(4) - 16 + 5 = 8 - 16 + 5 = -3)$.
 - VERTEX: $(2, -3)$.
 - AXIS OF SYMMETRY: $(x=2)$.
 - Y-INTERCEPT: $(c=5)$.
 - X-INTERCEPTS:
- SOLVE $(2x^2 - 8x + 5 = 0)$:

DISCRIMINANT $(D = (-8)^2 - 4 \times 2 \times 5 = 64 - 40 = 24)$.

ROOTS:

$$[x = \frac{8 \pm \sqrt{24}}{4} = \frac{8 \pm 2\sqrt{6}}{4} = 2 \pm \frac{\sqrt{6}}{2}]$$

- PLOT THESE POINTS AND SKETCH THE PARABOLA ACCORDINGLY.

EXAMPLE 2:

SUPPOSE A BALL IS THROWN UPWARD, FOLLOWING THE HEIGHT FUNCTION:

$$[h(t) = -5t^2 + 20t + 2]$$

WHERE (t) IS TIME IN SECONDS AND $(h(t))$ IS HEIGHT IN METERS. FIND THE MAXIMUM HEIGHT AND THE TIME AT WHICH IT OCCURS.

SOLUTION:

- $(a = -5)$, $(b = 20)$, $(c = 2)$.
 - VERTEX (t) -COORDINATE:
- $$[t = -\frac{b}{2a} = -\frac{20}{2 \times -5} = -\frac{20}{-10} = 2 \text{ SECONDS}]$$
- HEIGHT AT $(t=2)$:
- $$[h(2) = -5(2)^2 + 20(2) + 2 = -5(4) + 40 + 2 = -20 + 42 = 22]$$

[**Someone Help Me With This Quadratic Function Graph**](#)

Function Question

Someone Help Me With This Quadratic Function Graph Function Question

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