

MATH NOTES

MARCH 6, 2025
QUADRATIC EQUATIONS

1. KEY CONCEPTS

- A QUADRATIC EQUATION IS A MATHEMATICAL EXPRESSION WHERE THE HIGHEST POWER OF THE VARIABLE IS SQUARED. IT USUALLY CONSISTS OF THREE TERMS: ONE WITH THE VARIABLE SQUARED, ONE WITH THE VARIABLE TO THE FIRST POWER, AND A CONSTANT.
- THE SOLUTIONS, OR ROOTS, OF A QUADRATIC EQUATION REPRESENT THE VALUES OF THE VARIABLE THAT MAKE THE EQUATION TRUE. THESE CAN BE FOUND USING DIFFERENT METHODS, SUCH AS FACTORING, COMPLETING THE SQUARE, OR APPLYING A STANDARD FORMULA.
- WHEN REPRESENTED ON A GRAPH, A QUADRATIC FUNCTION CREATES A U-SHAPED CURVE CALLED A PARABOLA. THIS CURVE CAN EITHER OPEN UPWARD OR DOWNWARD DEPENDING ON THE LEADING COEFFICIENT.

2. METHODS FOR SOLVING QUADRATIC EQUATIONS

- **FACTORING:** EXPRESSING THE EQUATION AS A PRODUCT OF TWO SIMPLER EXPRESSIONS AND SOLVING FOR THE VARIABLE.
- **COMPLETING THE SQUARE:** REARRANGING THE EQUATION TO FORM A PERFECT SQUARE, MAKING IT EASIER TO SOLVE.
- **USING A STANDARD FORMULA:** A DIRECT WAY TO FIND THE SOLUTIONS WHEN OTHER METHODS ARE DIFFICULT TO APPLY.
- **GRAPHING:** PLOTTING THE EQUATION ON A COORDINATE PLANE TO VISUALLY DETERMINE WHERE IT INTERSECTS THE HORIZONTAL AXIS.

3. EXAMPLES + APPLICATIONS

EXAMPLE 1: SOLVING A QUADRATIC EQUATION USING A STANDARD METHOD

PROBLEM: A PROJECTILE IS LAUNCHED INTO THE AIR, AND ITS HEIGHT IN METERS IS DESCRIBED BY AN EQUATION BASED ON TIME. TO FIND WHEN THE OBJECT REACHES THE GROUND, SOLVE FOR THE TIME VARIABLE.

SOLUTION:

1. IDENTIFY THE KEY TERMS IN THE EQUATION.
2. USE AN APPROPRIATE METHOD, SUCH AS FACTORING OR APPLYING A STANDARD APPROACH, TO DETERMINE THE VALUES OF THE VARIABLE.
3. INTERPRET THE RESULTS IN THE CONTEXT OF THE PROBLEM.

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