

QUADRILATERAL MNPQ IS SHOWN. TRAPEZOID MNPQ IS DIVIDED INTO 4 TRIANGLES BY NQ AND MP, WHICH INTERSECT

QUADRILATERAL MNPQ IS SHOWN. TRAPEZOID MNPQ IS DIVIDED INTO 4 TRIANGLES BY NQ AND MP, WHICH INTERSECT

UNDERSTANDING THE GEOMETRIC PROPERTIES OF QUADRILATERALS, ESPECIALLY TRAPEZOIDS, IS FUNDAMENTAL IN BOTH ACADEMIC AND PRACTICAL APPLICATIONS SUCH AS ARCHITECTURE, ENGINEERING, AND DESIGN. IN THIS ARTICLE, WE WILL EXPLORE A SPECIFIC CONFIGURATION INVOLVING TRAPEZOID MNPQ, WHICH IS DIVIDED INTO FOUR TRIANGLES BY THE INTERSECTING DIAGONALS NQ AND MP. WE WILL ANALYZE THE CHARACTERISTICS OF THIS DIVISION, THE PROPERTIES OF THE RESULTING TRIANGLES, AND THE SIGNIFICANCE OF THE INTERSECTION POINT. THIS COMPREHENSIVE OVERVIEW AIMS TO ENHANCE YOUR UNDERSTANDING OF QUADRILATERALS AND THEIR INTERNAL DIVISIONS.

OVERVIEW OF TRAPEZOIDS AND THEIR PROPERTIES

WHAT IS A TRAPEZOID?

A TRAPEZOID (OR TRAPEZIUM IN SOME REGIONS) IS A QUADRILATERAL WITH EXACTLY ONE PAIR OF PARALLEL SIDES. THE PARALLEL SIDES ARE CALLED THE BASES, AND THE NON-PARALLEL SIDES ARE REFERRED TO AS THE LEGS. IN THE CONTEXT OF TRAPEZOID MNPQ:

- SUPPOSE MN AND PQ ARE THE BASES, WITH MN PARALLEL TO PQ.
- THE LEGS ARE THE SIDES MP AND NQ.

KEY PROPERTIES OF TRAPEZOIDS

UNDERSTANDING THE FUNDAMENTAL PROPERTIES OF TRAPEZOIDS AIDS IN ANALYZING INTERNAL DIVISIONS:

- SUM OF ADJACENT ANGLES: THE ANGLES ADJACENT TO EACH BASE ARE SUPPLEMENTARY.
- DIAGONALS: THE DIAGONALS MAY OR MAY NOT BE EQUAL, DEPENDING ON WHETHER THE TRAPEZOID IS ISOSCELES.
- AREA: CALCULATED AS THE AVERAGE OF THE BASES MULTIPLIED BY THE HEIGHT.

INTERNAL DIVISION OF TRAPEZOID MNPQ INTO FOUR TRIANGLES

THE ROLE OF DIAGONALS NQ AND MP

IN OUR SPECIFIC CONFIGURATION, DIAGONALS NQ AND MP ARE DRAWN INSIDE TRAPEZOID MNPQ, INTERSECTING AT A POINT. THIS DIVISION CREATES FOUR DISTINCT TRIANGLES:

- TRIANGLE MNQ

- TRIANGLE N P Q
- TRIANGLE M N P
- TRIANGLE M P Q

INTERSECTION POINT OF THE DIAGONALS

THE DIAGONALS N Q AND M P INTERSECT AT A POINT, OFTEN LABELED AS O. THIS POINT OF INTERSECTION IS SIGNIFICANT BECAUSE:

- IT DIVIDES THE DIAGONALS INTO SEGMENTS WITH SPECIFIC RATIOS.
- IT ACTS AS A COMMON VERTEX FOR THE FOUR TRIANGLES.
- ITS POSITION PROVIDES INSIGHTS INTO THE PROPERTIES OF THE TRAPEZOID, SUCH AS WHETHER IT IS ISOSCELES OR NOT.

PROPERTIES OF THE FOUR TRIANGLES FORMED

ANALYZING EACH TRIANGLE

EACH OF THE FOUR TRIANGLES SHARES VERTICES WITH THE ORIGINAL TRAPEZOID AND THE DIAGONALS:

- TRIANGLE M N Q: FORMED BY VERTICES M, N, AND Q.
- TRIANGLE N P Q: FORMED BY VERTICES N, P, AND Q.
- TRIANGLE M N P: FORMED BY VERTICES M, N, AND P.
- TRIANGLE M P Q: FORMED BY VERTICES M, P, AND Q.

PROPERTIES OF THESE TRIANGLES

THE CHARACTERISTICS OF THESE TRIANGLES DEPEND ON THE NATURE OF THE TRAPEZOID:

- THEY MAY BE RIGHT TRIANGLES, ISOSCELES, OR SCALENE DEPENDING ON SIDE LENGTHS AND ANGLES.
- THE ANGLES AT THE INTERSECTION POINT O ARE CRUCIAL IN DETERMINING SIMILARITY AND CONGRUENCE AMONG THE TRIANGLES.
- ANALYZING THE RATIOS OF SEGMENTS CREATED BY THE DIAGONALS HELPS IN ESTABLISHING PROPERTIES LIKE AREA RATIOS AND PROPORTIONAL SEGMENTS.

SIGNIFICANCE OF THE DIAGONAL INTERSECTION

UNDERSTANDING DIAGONAL INTERSECTIONS IN QUADRILATERALS

IN ANY CONVEX QUADRILATERAL, THE DIAGONALS INTERSECT AT A POINT THAT CAN REVEAL MUCH ABOUT THE SHAPE'S PROPERTIES:

- IN A PARALLELOGRAM, DIAGONALS BISECT EACH OTHER.
- IN A GENERAL TRAPEZOID, DIAGONALS INTERSECT AT A POINT THAT DIVIDES THEM INTO SEGMENTS WITH SPECIFIC RATIOS, OFTEN RELATED TO THE LENGTHS OF THE BASES OR LEGS.

SPECIAL CASES: ISOSCELES TRAPEZOID

WHEN THE TRAPEZOID IS ISOSCELES (NON-PARALLEL SIDES ARE EQUAL), PROPERTIES BECOME MORE SYMMETRICAL:

- THE DIAGONALS ARE EQUAL IN LENGTH.
- THE DIAGONALS INTERSECT AT A POINT THAT DIVIDES THEM PROPORTIONALLY.
- THE FOUR TRIANGLES FORMED ARE OFTEN CONGRUENT OR SIMILAR UNDER SPECIFIC CONDITIONS.

APPLICATIONS OF DIAGONAL DIVISION IN GEOMETRY

AREA CALCULATIONS

DIVIDING A TRAPEZOID INTO TRIANGLES SIMPLIFIES COMPLEX AREA CALCULATIONS:

- AREAS OF THE INDIVIDUAL TRIANGLES CAN BE COMPUTED USING STANDARD FORMULAS.
- SUM OF THE TRIANGLES' AREAS EQUALS THE AREA OF THE ORIGINAL TRAPEZOID.

PROVING GEOMETRIC THEOREMS

THE INTERNAL DIVISION OF SHAPES INTO TRIANGLES IS FOUNDATIONAL IN PROVING:

- PROPERTIES OF SIMILAR TRIANGLES.
- CONGRUENCE CRITERIA.
- RELATIONSHIPS BETWEEN SEGMENT RATIOS AND ANGLES.

ADDITIONAL GEOMETRIC CONCEPTS RELATED TO QUADRILATERAL MNPQ

MEDIAN AND SEGMENT RATIOS

THE INTERSECTION POINT O OFTEN DIVIDES DIAGONALS INTO SEGMENTS WITH RATIOS THAT DEPEND ON THE SHAPE:

- IF THE TRAPEZOID IS ISOSCELES, DIAGONALS ARE EQUAL, AND THE DIVISION RATIOS ARE SYMMETRIC.
- IN GENERAL TRAPEZOIDS, RATIOS CAN BE USED TO DERIVE LENGTHS AND ANGLES THROUGH SIMILARITY AND PROPORTIONALITY.

COORDINATE GEOMETRY APPROACH

TO ANALYZE THE CONFIGURATION QUANTITATIVELY:

1. ASSIGN COORDINATE AXES TO VERTICES M, N, P, Q .
2. CALCULATE EQUATIONS OF DIAGONALS NQ AND MP .
3. FIND THE INTERSECTION POINT O BY SOLVING THESE EQUATIONS.
4. DETERMINE SEGMENT RATIOS AND VERIFY PROPERTIES LIKE MIDPOINT OR DIVISION RATIOS.

CONCLUSION

THE DIVISION OF TRAPEZOID $MNPQ$ INTO FOUR TRIANGLES BY THE INTERSECTING DIAGONALS NQ AND MP OFFERS VALUABLE INSIGHTS INTO THE SHAPE'S INTERNAL STRUCTURE. THIS CONFIGURATION NOT ONLY AIDS IN CALCULATING AREAS, ANGLES, AND SEGMENT RATIOS BUT ALSO PROVIDES A FOUNDATION FOR UNDERSTANDING MORE ADVANCED GEOMETRIC PRINCIPLES SUCH AS SIMILARITY, CONGRUENCE, AND PROPORTIONALITY. RECOGNIZING THE PROPERTIES OF THE INTERSECTION POINT AND THE RESULTING TRIANGLES ENHANCES PROBLEM-SOLVING SKILLS AND DEEPENS COMPREHENSION OF QUADRILATERALS' GEOMETRIC BEHAVIOR.

WHETHER YOU'RE A STUDENT STUDYING GEOMETRY OR A PROFESSIONAL APPLYING THESE CONCEPTS IN DESIGN AND ENGINEERING, UNDERSTANDING HOW DIAGONALS DIVIDE TRAPEZOIDS INTO TRIANGLES IS ESSENTIAL. THIS KNOWLEDGE BRIDGES THEORETICAL UNDERSTANDING WITH PRACTICAL APPLICATIONS, MAKING IT A CORNERSTONE OF GEOMETRIC ANALYSIS.

FREQUENTLY ASKED QUESTIONS

WHAT TYPE OF QUADRILATERAL IS $MNPQ$ BASED ON ITS PROPERTIES?

QUADRILATERAL $MNPQ$ IS A TRAPEZOID, AS IT HAS ONE PAIR OF PARALLEL SIDES.

HOW DOES DIVIDING TRAPEZOID $MNPQ$ WITH DIAGONALS NQ AND MP AFFECT ITS INTERNAL STRUCTURE?

DIVIDING THE TRAPEZOID WITH DIAGONALS NQ AND MP CREATES FOUR TRIANGLES WITHIN THE FIGURE, REVEALING ITS INTERNAL SYMMETRY AND RELATIONSHIPS.

ARE THE DIAGONALS NQ AND MP INTERSECTING AT THE SAME POINT IN TRAPEZOID $MNPQ$?

YES, THE DIAGONALS NQ AND MP INTERSECT AT A SINGLE POINT INSIDE THE TRAPEZOID, DIVIDING IT INTO FOUR TRIANGLES.

WHAT CAN BE SAID ABOUT THE ANGLES OF THE TRIANGLES FORMED INSIDE TRAPEZOID $MNPQ$?

THE ANGLES WITHIN THE FOUR TRIANGLES ARE RELATED THROUGH THE PROPERTIES OF THE TRAPEZOID AND THE INTERSECTING DIAGONALS, OFTEN LEADING TO SIMILAR OR SUPPLEMENTARY ANGLES.

HOW DOES THE INTERSECTION POINT OF DIAGONALS NQ AND MP RELATE TO THE PROPERTIES OF THE TRAPEZOID?

THE INTERSECTION POINT IS SIGNIFICANT BECAUSE IT HELPS IN UNDERSTANDING PROPERTIES LIKE THE MIDPOINT, RATIOS, AND POTENTIAL FOR SIMILAR TRIANGLES WITHIN THE TRAPEZOID.

CAN THE DIAGONALS NQ AND MP BE EQUAL IN LENGTH IN TRAPEZOID $MNPQ$?

IN A GENERAL TRAPEZOID, DIAGONALS ARE NOT NECESSARILY EQUAL; THEY ARE ONLY EQUAL IN SPECIAL CASES LIKE AN ISOSCELES TRAPEZOID.

WHAT IS THE SIGNIFICANCE OF THE FOUR TRIANGLES FORMED INSIDE THE TRAPEZOID?

THE FOUR TRIANGLES HELP IN ANALYZING THE PROPERTIES OF THE TRAPEZOID, SUCH AS CALCULATING AREA, ANGLES, AND UNDERSTANDING GEOMETRIC RELATIONSHIPS BETWEEN THE SIDES AND DIAGONALS.

IS IT ALWAYS TRUE THAT THE DIAGONALS OF A TRAPEZOID INTERSECT INSIDE THE FIGURE?

YES, IN A TRAPEZOID, THE DIAGONALS ALWAYS INTERSECT AT A POINT INSIDE THE FIGURE, DIVIDING IT INTO FOUR TRIANGLES.

ADDITIONAL RESOURCES

QUADRILATERAL $MNPQ$ IS SHOWN. TRAPEZOID $MNPQ$ IS DIVIDED INTO 4 TRIANGLES BY NQ AND MP , WHICH INTERSECT

INTRODUCTION

THE GEOMETRIC CONFIGURATION OF QUADRILATERALS OFTEN PROVIDES RICH INSIGHTS INTO THE PROPERTIES OF THEIR SIDES, ANGLES, AND INTERNAL SEGMENTS. AMONG THESE, TRAPEZOIDS HOLD A SPECIAL PLACE DUE TO THEIR UNIQUE FEATURE OF HAVING EXACTLY ONE PAIR OF PARALLEL SIDES. THE SPECIFIC CASE OF A TRAPEZOID LABELED $MNPQ$, WITH THE SHAPE DIVIDED INTO FOUR TRIANGLES BY THE SEGMENTS NQ AND MP , WHICH INTERSECT INSIDE THE FIGURE, PROMPTS A DETAILED INVESTIGATION. THIS ARTICLE AIMS TO ANALYZE THE PROPERTIES, RELATIONSHIPS, AND THE UNDERLYING GEOMETRIC PRINCIPLES OF THIS CONFIGURATION, PROVIDING A COMPREHENSIVE REVIEW THAT BRIDGES FOUNDATIONAL GEOMETRY AND ADVANCED PROBLEM-SOLVING STRATEGIES.

GEOMETRIC SETUP AND BASIC DEFINITIONS

THE QUADRILATERAL AND ITS CLASSIFICATION

THE QUADRILATERAL IN QUESTION, $MNPQ$, IS IDENTIFIED AS A TRAPEZOID. BY DEFINITION, A TRAPEZOID (OR TRAPEZIUM IN SOME REGIONS) IS A QUADRILATERAL WITH AT LEAST ONE PAIR OF OPPOSITE SIDES PARALLEL. WITHOUT LOSS OF GENERALITY, WE MAY ASSUME:

- MN AND PQ ARE THE NON-PARALLEL SIDES.
- MP AND NQ ARE THE PARALLEL BASES.

NOTE: THE EXACT LABELING AND ORIENTATION INFLUENCE THE PROPERTIES DISCUSSED LATER, BUT THE CORE CONCEPTS REMAIN CONSISTENT ACROSS DIFFERENT CONFIGURATIONS.

KEY ELEMENTS AND NOTATION

- VERTICES: M, N, P, Q
- SEGMENTS OF INTEREST:
- DIAGONALS: MP AND NQ
- CONNECTING SEGMENTS: NQ AND MP , WHICH INTERSECT INSIDE THE QUADRILATERAL

THE INTERSECTION OF DIAGONALS AND THE DIVISION INTO FOUR TRIANGLES FORM THE CRUX OF THIS ANALYSIS.

INTERNAL SEGMENTS AND THEIR INTERSECTION

SEGMENTS NQ AND MP

THE SEGMENTS NQ AND MP ARE DRAWN INSIDE THE TRAPEZOID SUCH THAT THEY INTERSECT AT A POINT O , WHICH LIES STRICTLY WITHIN THE QUADRILATERAL.

- PROPERTIES OF THE INTERSECTION POINT O :
- IT DIVIDES EACH OF THE SEGMENTS INTO TWO PARTS.
- THE INTERSECTION POINT O FORMS FOUR SMALLER TRIANGLES WITHIN THE ORIGINAL QUADRILATERAL: MNO , NQO , PQO , AND MPO .

SIGNIFICANCE OF THE INTERSECTION

THE INTERSECTION OF DIAGONALS OR INTERNAL SEGMENTS IN A TRAPEZOID OFTEN REVEALS KEY PROPERTIES RELATED TO SIMILARITY, RATIOS, AND PROPORTIONALITY. FOR EXAMPLE, IN A GENERAL QUADRILATERAL, THE INTERSECTION POINT OF DIAGONALS DIVIDES THEM INTO SEGMENTS WHOSE RATIOS ARE RELATED TO THE AREAS OF SUB-TRIANGLES OR TO THE LENGTHS OF SIDES.

DECOMPOSITION INTO FOUR TRIANGLES: GEOMETRIC IMPLICATIONS

THE FOUR TRIANGLES

THE DIVISION OF TRAPEZOID $MNPQ$ INTO FOUR TRIANGLES BY THE INTERSECTING SEGMENTS NQ AND MP CAN BE SUMMARIZED AS:

1. TRIANGLE MNO
2. TRIANGLE NQO
3. TRIANGLE PQO
4. TRIANGLE MPO

THESE FOUR TRIANGLES TOGETHER FILL THE ENTIRE INTERIOR OF THE QUADRILATERAL.

AREA RELATIONSHIPS

ONE OF THE KEY ASPECTS OF THIS CONFIGURATION INVOLVES EXPLORING HOW THE AREAS OF THESE FOUR TRIANGLES RELATE

TO EACH OTHER AND TO THE OVERALL AREA OF THE TRAPEZOID. FOR EXAMPLE:

- DO THE FOUR TRIANGLES HAVE EQUAL AREAS?
- ARE THEIR AREAS PROPORTIONAL TO THE SEGMENTS INTO WHICH THE DIAGONALS ARE DIVIDED?
- CAN THE RATIOS OF THE SEGMENTS MP AND NQ BE EXPRESSED IN TERMS OF THE AREAS OF THESE TRIANGLES?

SEGMENT RATIOS AND MASS POINT GEOMETRY

THE INTERSECTION POINT O OFTEN ACTS AS A CENTER OF DIVISION FOR THE DIAGONALS. USING MASS POINT GEOMETRY OR SIMILAR TRIANGLES, ONE CAN ANALYZE THE RATIOS:

- IF SEGMENTS NQ AND MP ARE DIVIDED PROPORTIONALLY, THEN RATIOS SUCH AS $|NO| / |QO|$ AND $|MO| / |PO|$ BECOME CRITICAL.
- POTENTIAL FOR HARMONIC DIVISION WHEN CERTAIN SEGMENTS ARE PROPORTIONAL.

ANALYTICAL APPROACH: COORDINATE GEOMETRY AND THEOREMS

APPLYING COORDINATE GEOMETRY

TO RIGOROUSLY ANALYZE THE CONFIGURATION, ASSIGN COORDINATES TO THE VERTICES:

- M AT $(0, 0)$
- N AT $(a, 0)$
- P AT (b, h)
- Q AT (c, h)

ASSUMING PQ IS PARALLEL TO NM (SINCE IT'S A TRAPEZOID), THEN THE TOP AND BOTTOM BASES ARE HORIZONTAL LINES.

CALCULATING INTERSECTION POINT O

- EQUATIONS OF SEGMENTS NQ AND MP CAN BE WRITTEN.
- FIND THEIR INTERSECTION POINT O BY SOLVING THESE EQUATIONS.

LENGTHS AND RATIOS

ONCE O IS DETERMINED, COMPUTE:

- SEGMENT LENGTHS $|NO|, |QO|, |MO|, |PO|$
- AREAS OF THE FOUR TRIANGLES, USING COORDINATE FORMULAS FOR TRIANGLES:

$$\text{AREA} = \frac{1}{2} |x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$$

THEOREMS RELEVANT TO THE CONFIGURATION

- CEVA'S THEOREM: PROVIDES CONDITIONS FOR CONCURRENCY OF SEGMENTS.
- MENELAUS' THEOREM: FOR COLLINEARITY AND RATIOS IN A TRIANGLE.
- PROPERTIES OF DIAGONALS IN TRAPEZOIDS: DIAGONALS ARE NOT NECESSARILY EQUAL, BUT THEIR RATIOS RELATE TO SIDE LENGTHS AND ANGLES.

SPECIAL CASES AND SYMMETRY

ISOSCELES TRAPEZOID

WHEN $MNPQ$ IS AN ISOSCELES TRAPEZOID (NON-PARALLEL SIDES EQUAL), THE INTERNAL SEGMENTS AND THEIR INTERSECTIONS EXHIBIT SYMMETRY:

- THE INTERSECTION POINT O OFTEN LIES ON THE LINE OF SYMMETRY.
- THE FOUR TRIANGLES FORMED TEND TO HAVE EQUAL OR PROPORTIONALLY RELATED AREAS.

RECTANGULAR BASES

IF THE BASES ARE EQUAL IN LENGTH, MAKING THE SHAPE A RECTANGLE, THE ANALYSIS SIMPLIFIES, AND THE SEGMENTS NQ AND MP MAY INTERSECT AT THE CENTER, LEADING TO SYMMETRICAL DIVISION.

APPLICATIONS AND BROADER IMPLICATIONS

GEOMETRIC CONSTRUCTIONS AND PROOFS

UNDERSTANDING HOW A TRAPEZOID DIVIDED BY INTERSECTING SEGMENTS BEHAVES PROVIDES TOOLS FOR:

- CONSTRUCTING GEOMETRIC PROOFS INVOLVING RATIOS AND SIMILARITY.
- DERIVING PROPERTIES RELATED TO HARMONIC DIVISIONS.
- SOLVING COMPLEX PROBLEMS IN EUCLIDEAN GEOMETRY.

PRACTICAL APPLICATIONS

- ENGINEERING AND ARCHITECTURE: DESIGN OF STRUCTURES WITH TRAPEZOIDAL COMPONENTS.
- COMPUTER GRAPHICS: ALGORITHMS INVOLVING POLYGON SUBDIVISION.
- ROBOTICS AND PATH PLANNING: NAVIGATING WITHIN GEOMETRICALLY DIVIDED SPACES.

CONCLUSION

THE ANALYSIS OF QUADRILATERAL $MNPQ$, SPECIFICALLY A TRAPEZOID DIVIDED INTO FOUR TRIANGLES BY THE INTERSECTING SEGMENTS NQ AND MP , REVEALS A RICH TAPESTRY OF GEOMETRIC RELATIONSHIPS. THE INTERSECTION POINT O SERVES AS A FOCAL POINT FOR UNDERSTANDING RATIOS, AREAS, AND SEGMENT DIVISIONS. BY APPLYING COORDINATE GEOMETRY, CLASSICAL THEOREMS, AND SYMMETRY CONSIDERATIONS, ONE CAN UNCOVER UNDERLYING PROPORTIONALITIES AND PROPERTIES THAT NOT ONLY DEEPEN THEORETICAL UNDERSTANDING BUT ALSO HAVE PRACTICAL IMPLICATIONS.

THIS CONFIGURATION EXEMPLIFIES THE ELEGANCE OF GEOMETRIC STRUCTURES AND THE POWER OF INTERNAL SEGMENT DIVISIONS IN REVEALING THE INTRINSIC HARMONY OF POLYGONS. FUTURE RESEARCH MAY INVOLVE EXPLORING DYNAMIC MODELS WHERE THE QUADRILATERAL'S DIMENSIONS CHANGE, ANALYZING HOW THESE INTERNAL RELATIONSHIPS ADAPT AND WHAT INVARIANT PROPERTIES PERSIST ACROSS TRANSFORMATIONS.

BY THOROUGHLY EXPLORING THIS CONFIGURATION, WE CONTRIBUTE TO THE BROADER UNDERSTANDING OF QUADRILATERAL GEOMETRY, ENRICHING BOTH EDUCATIONAL PERSPECTIVES AND PRACTICAL APPLICATIONS IN FIELDS THAT RELY ON GEOMETRIC PRECISION.

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