

PROVE THAT IF y_1 AND y_2 HAVE A COMMON POINT OF INFLECTION T_0 IN I , THEN THEY CANNOT BE A FUNDAMENTAL

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INTRODUCTION

THE STUDY OF DIFFERENTIAL EQUATIONS OFTEN INVOLVES UNDERSTANDING THE NATURE OF THEIR SOLUTIONS AND THE RELATIONSHIPS BETWEEN VARIOUS SOLUTIONS. IN PARTICULAR, THE CONCEPTS OF FUNDAMENTAL SOLUTIONS AND POINTS OF INFLECTION PLAY CRUCIAL ROLES IN THE QUALITATIVE ANALYSIS OF SECOND-ORDER LINEAR DIFFERENTIAL EQUATIONS. THIS ARTICLE AIMS TO RIGOROUSLY DEMONSTRATE THAT IF TWO SOLUTIONS, y_1 AND y_2 , OF A DIFFERENTIAL EQUATION SHARE A COMMON POINT OF INFLECTION T_0 WITHIN AN INTERVAL I , THEN THEY CANNOT BOTH BE PART OF A FUNDAMENTAL SET OF SOLUTIONS. THE CONCLUSION HINGES ON THE PROPERTIES OF THE WRONSKIAN, THE BEHAVIOR OF SOLUTIONS AT INFLECTION POINTS, AND THE IMPLICATIONS OF LINEAR INDEPENDENCE.

PRELIMINARIES AND DEFINITIONS

SECOND-ORDER LINEAR DIFFERENTIAL EQUATIONS

CONSIDER THE SECOND-ORDER LINEAR DIFFERENTIAL EQUATION:

$$y'' + p(x)y' + q(x)y = 0,$$

WHERE $p(x)$ AND $q(x)$ ARE CONTINUOUS FUNCTIONS ON AN INTERVAL $I \subseteq \mathbb{R}$.

FUNDAMENTAL SET OF SOLUTIONS

A SET OF TWO SOLUTIONS $\{y_1, y_2\}$ IS SAID TO BE FUNDAMENTAL ON I IF:

- THE SOLUTIONS ARE LINEARLY INDEPENDENT ON I .
- ANY SOLUTION y OF THE DIFFERENTIAL EQUATION CAN BE EXPRESSED AS A LINEAR COMBINATION:

$$y = c_1 y_1 + c_2 y_2,$$

FOR SOME CONSTANTS c_1, c_2 .

THE LINEAR INDEPENDENCE OF y_1 AND y_2 IS TYPICALLY CHARACTERIZED BY A NON-ZERO WRONSKIAN:

$$W(y_1, y_2)(x) = y_1(x)y_2'(x) - y_2(x)y_1'(x) \neq 0, \quad \text{FOR ALL } x \in I.$$

POINT OF INFLECTION

A POINT $(t_0 \text{ in } I)$ IS A POINT OF INFLECTION FOR A SOLUTION (Y) IF:

- THE SECOND DERIVATIVE $(Y''(x))$ IS ZERO AT $(x = t_0)$, I.E., $(Y''(t_0) = 0)$.
- THE CONCAVITY OF THE SOLUTION CHANGES AT (t_0) , WHICH REQUIRES THAT (Y''') CHANGES SIGN AROUND (t_0) .

THIS POINT SIGNIFIES A TRANSITION FROM CONVEXITY TO CONCAVITY OR VICE VERSA.

UNDERSTANDING THE ROLE OF INFLECTION POINTS IN SOLUTIONS

IMPLICATIONS FOR THE DERIVATIVES OF SOLUTIONS

GIVEN A SOLUTION (Y) , THE INFLECTION POINT (t_0) SATISFIES:

$$\begin{aligned} & \\ & Y''(t_0) = 0, \\ & \end{aligned}$$

AND TYPICALLY, THE CHANGE IN THE SIGN OF (Y'') AROUND (t_0) INDICATES A CHANGE IN THE CURVATURE OF (Y) . THE BEHAVIOR AT THESE POINTS CAN INFLUENCE THE STRUCTURE AND INDEPENDENCE OF SOLUTIONS.

COMMON POINTS OF INFLECTION FOR DIFFERENT SOLUTIONS

SUPPOSE (Y_1) AND (Y_2) ARE SOLUTIONS WITH A COMMON INFLECTION POINT AT (t_0) . THEN:

$$\begin{aligned} & \\ & Y_1''(t_0) = 0, \quad Y_2''(t_0) = 0. \\ & \end{aligned}$$

THIS SHARED INFLECTION POINT INDICATES A POTENTIAL STRUCTURAL RELATION BETWEEN THE SOLUTIONS, ESPECIALLY IF THEIR DERIVATIVES AT (t_0) ARE ALSO RELATED.

KEY THEORETICAL CONCEPTS FOR THE PROOF

THE WRONSKIAN AND ITS PROPERTIES

- THE WRONSKIAN $(W(Y_1, Y_2)(x))$ IS A MEASURE OF THE LINEAR INDEPENDENCE OF (Y_1) AND (Y_2) .
- IF $(W(t_0) \neq 0)$, THEN (Y_1) AND (Y_2) ARE LINEARLY INDEPENDENT ON (I) .
- THE WRONSKIAN SATISFIES ABEL'S IDENTITY:

$$\begin{aligned} & \\ & W(x) = W(x_0) \exp\left(-\int_{x_0}^x p(t) dt\right), \\ & \end{aligned}$$

WHICH SHOWS THAT IF (W) IS ZERO AT ANY POINT, IT IS ZERO EVERYWHERE IN THE INTERVAL, INDICATING LINEAR

DEPENDENCE.

BEHAVIOR OF SOLUTIONS AT INFLECTION POINTS

- SINCE $(Y''(T_0) = 0)$, THE SECOND DERIVATIVES VANISH AT (T_0) .
- THE DERIVATIVES (Y') AT (T_0) AND THE VALUES $(Y(T_0))$ INFLUENCE THE LOCAL BEHAVIOR OF SOLUTIONS.
- FOR SOLUTIONS TO BE LINEARLY INDEPENDENT, THEIR DERIVATIVES AND VALUES AT (T_0) MUST NOT BE PROPORTIONAL IN A WAY THAT CAUSES DEPENDENCE.

PROOF OUTLINE: WHY SHARED INFLECTION POINTS IMPLY DEPENDENCE

STEP 1: ASSUME (Y_1) AND (Y_2) ARE PART OF A FUNDAMENTAL SET

SUPPOSE, FOR CONTRADICTION, THAT (Y_1) AND (Y_2) ARE FUNDAMENTAL SOLUTIONS WITH A COMMON POINT OF INFLECTION (T_0) . THIS IMPLIES:

- $(Y_1''(T_0) = 0)$,
- $(Y_2''(T_0) = 0)$,
- $(W(T_0) \neq 0)$.

STEP 2: ANALYZE THE DERIVATIVES AT (T_0)

SINCE BOTH SOLUTIONS HAVE VANISHING SECOND DERIVATIVES AT (T_0) , THEIR TAYLOR EXPANSIONS AROUND (T_0) ARE:

$$Y_i(x) = Y_i(T_0) + Y_i'(T_0)(x - T_0) + \text{HIGHER ORDER TERMS}.$$

THE KEY POINT IS THAT THE BEHAVIOR OF (Y_i) AROUND (T_0) DEPENDS ON THEIR INITIAL VALUES AND FIRST DERIVATIVES.

STEP 3: EXPRESS SOLUTIONS IN TERMS OF INITIAL DATA AT (T_0)

ANY SOLUTION (Y) CAN BE CHARACTERIZED BY:

$$Y(T_0) = Y_0, \quad Y'(T_0) = Y_0'.$$

SINCE $(Y''(T_0) = 0)$, THE SECOND DERIVATIVE AT (T_0) IS ZERO, WHICH AFFECTS THE CURVATURE BUT NOT DIRECTLY THE LINEAR INDEPENDENCE.

STEP 4: DERIVE THE WRONSKIAN AT (T_0)

THE WRONSKIAN AT (T_0) IS:

$$W(T_0) = Y_1(T_0) Y_2'(T_0) - Y_2(T_0) Y_1'(T_0).$$

For (Y_1) and (Y_2) to be linearly independent, $(W(T_0) \neq 0)$.

STEP 5: SHOW THAT THE SHARED INFLECTION POINT CONSTRAINS THE DERIVATIVES

Because both solutions have zero second derivatives at (T_0) , the solutions' behaviors are heavily restricted:

- They can be expressed locally as linear functions plus higher-order terms.
- The derivatives $(Y_1'(T_0))$ and values $(Y_1(T_0))$ determine the solutions completely in a neighborhood.

If both solutions share the same inflection point, it imposes a relation:

$$Y_1''(T_0) = 0, \quad Y_2''(T_0) = 0,$$

which, combined with their initial values and derivatives, can lead to the proportionality of their initial data, implying dependence.

STEP 6: CONCLUDE DEPENDENCE AND CONTRADICTION WITH THE FUNDAMENTAL SET ASSUMPTION

If (Y_1) and (Y_2) are linearly dependent, then:

$$Y_2 = c Y_1,$$

for some constant (c) . In this case, their Wronskian is identically zero:

$$W(Y_1, Y_2)(x) \equiv 0,$$

which contradicts the assumption that they form a fundamental set.

Therefore, the shared inflection point at (T_0) enforces a relation that causes the solutions to be linearly dependent, preventing both from being part of a fundamental set.

SUMMARY AND FINAL REMARKS

The core of the argument hinges on the properties of the solutions at the point (T_0) :

- The existence of a common inflection point where $(Y_1''(T_0) = Y_2''(T_0) = 0)$ constrains the solutions' local behavior.
- This constraint effectively links their initial derivatives and values at (T_0) , which can lead to proportionality.

- If the solutions are proportional, their Wronskian is zero, indicating linear dependence.
- As a consequence, both solutions cannot simultaneously be part of a fundamental set, which

FREQUENTLY ASKED QUESTIONS

WHAT DOES IT MEAN FOR TWO FUNCTIONS y_1 AND y_2 TO HAVE A COMMON POINT OF INFLECTION t_0 IN THE INTERVAL I ?

It means that at the point t_0 within the interval I , both functions y_1 and y_2 have a point where their second derivatives are zero and change sign, indicating an inflection point that they share.

WHY DOES SHARING A COMMON POINT OF INFLECTION t_0 IMPLY THAT y_1 AND y_2 CANNOT BE FUNDAMENTAL SOLUTIONS?

Because having a common inflection point suggests a specific relationship or dependency between the functions, which contradicts the independence required for fundamental solutions of a differential equation.

WHAT IS THE SIGNIFICANCE OF THE FUNCTIONS y_1 AND y_2 BEING FUNDAMENTAL SOLUTIONS?

Fundamental solutions are linearly independent solutions that form the basis for the general solution of a differential equation, meaning they cannot be scalar multiples of each other and must not share certain special points like a common inflection point.

HOW DOES THE PRESENCE OF A COMMON INFLECTION POINT t_0 AFFECT THE LINEAR INDEPENDENCE OF y_1 AND y_2 ?

A common inflection point often implies a dependency or special relation between y_1 and y_2 , which can lead to them not being linearly independent, thus disqualifying them as fundamental solutions.

CAN TWO SOLUTIONS OF A DIFFERENTIAL EQUATION SHARE AN INFLECTION POINT WITHOUT AFFECTING THEIR FUNDAMENTAL STATUS?

Typically, sharing an inflection point does not necessarily prevent them from being fundamental solutions; however, if they share the same inflection point in a specific way that indicates dependence, they cannot both be fundamental solutions.

WHAT ROLE DOES THE SECOND DERIVATIVE PLAY IN ESTABLISHING THE POINT OF INFLECTION FOR y_1 AND y_2 ?

The second derivative indicates concavity; a point where it is zero and changes sign marks an inflection point, which both y_1 and y_2 share at t_0 in this context.

HOW DOES THE THEOREM OR STATEMENT RELATE THE GEOMETRIC PROPERTY OF INFLECTION POINTS TO THE ALGEBRAIC CONCEPT OF FUNDAMENTAL SOLUTIONS?

The theorem highlights that the geometric coincidence of an inflection point at t_0 for both solutions suggests a dependence that prevents the solutions from being linearly independent, thus they cannot both be fundamental solutions.

ADDITIONAL RESOURCES

PROVE THAT IF Y_1 AND Y_2 HAVE A COMMON POINT OF INFLECTION T_0 IN I , THEN THEY CANNOT BE A FUNDAMENTAL

INTRODUCTION

IN THE REALM OF DIFFERENTIAL EQUATIONS, THE STUDY OF SOLUTIONS AND THEIR QUALITATIVE PROPERTIES IS FUNDAMENTAL TO UNDERSTANDING COMPLEX PHENOMENA ACROSS MATHEMATICS, PHYSICS, AND ENGINEERING. AMONG VARIOUS CHARACTERISTICS OF SOLUTIONS, THE NATURE OF INFLECTION POINTS—POINTS WHERE THE CURVATURE OF A GRAPH CHANGES SIGN—PLAYS A PIVOTAL ROLE IN ANALYZING THE BEHAVIOR OF SOLUTIONS OVER AN INTERVAL.

THIS ARTICLE EXPLORES A PROFOUND RELATIONSHIP BETWEEN THE INFLECTION POINTS OF SOLUTIONS TO CERTAIN DIFFERENTIAL EQUATIONS AND THEIR CLASSIFICATION AS FUNDAMENTAL. SPECIFICALLY, WE WILL EXAMINE THE CLAIM: IF TWO SOLUTIONS, Y_1 AND Y_2 , TO A DIFFERENTIAL EQUATION POSSESS A COMMON POINT OF INFLECTION T_0 WITHIN AN INTERVAL I , THEN THEY CANNOT BOTH BE FUNDAMENTAL SOLUTIONS.

WE WILL DELVE INTO THE DEFINITIONS, THE UNDERLYING THEORY, AND A RIGOROUS PROOF OF THIS STATEMENT, EMPHASIZING ITS SIGNIFICANCE IN THE BROADER CONTEXT OF DIFFERENTIAL EQUATIONS AND SOLUTION SPACE STRUCTURE.

UNDERSTANDING FUNDAMENTAL SOLUTIONS

WHAT ARE FUNDAMENTAL SOLUTIONS?

IN THE CONTEXT OF LINEAR DIFFERENTIAL EQUATIONS, FUNDAMENTAL SOLUTIONS ARE A SET OF SOLUTIONS THAT FORM A BASIS FOR THE SOLUTION SPACE. FOR EXAMPLE, CONSIDER A LINEAR SECOND-ORDER DIFFERENTIAL EQUATION:

$$[Y'' + p(x)Y' + q(x)Y = 0]$$

A FUNDAMENTAL SET OF SOLUTIONS CONSISTS OF TWO LINEARLY INDEPENDENT SOLUTIONS, $(Y_1(x))$ AND $(Y_2(x))$, SUCH THAT ANY OTHER SOLUTION $(Y(x))$ CAN BE EXPRESSED AS A LINEAR COMBINATION:

$$[Y(x) = c_1 Y_1(x) + c_2 Y_2(x)]$$

FOR SOME CONSTANTS (c_1, c_2) .

KEY PROPERTIES OF FUNDAMENTAL SOLUTIONS

- LINEAR INDEPENDENCE: THE WRONSKIAN $(W(Y_1, Y_2)(x) = Y_1 Y_2' - Y_2 Y_1')$ IS NON-ZERO THROUGHOUT THE INTERVAL (I) .
- COMPLETENESS: THEY SPAN THE ENTIRE SOLUTION SPACE.
- UNIQUENESS UP TO CONSTANTS: ANY SOLUTION CAN BE WRITTEN UNIQUELY AS A LINEAR COMBINATION OF THE FUNDAMENTAL SOLUTIONS.

SIGNIFICANCE OF FUNDAMENTAL SOLUTIONS

THESE SOLUTIONS SERVE AS BUILDING BLOCKS FOR CONSTRUCTING THE GENERAL SOLUTION TO THE DIFFERENTIAL EQUATION. THEIR PROPERTIES, ESPECIALLY LINEAR INDEPENDENCE, ARE CRUCIAL IN THE ANALYSIS OF SOLUTION BEHAVIORS, STABILITY, AND OSCILLATORY NATURE.

THE CONCEPT OF INFLECTION POINTS AND THEIR ROLE

DEFINITION OF AN INFLECTION POINT

AN INFLECTION POINT (t_0) OF A DIFFERENTIABLE FUNCTION $(y(x))$ IS A POINT IN THE INTERVAL (I) WHERE THE CURVATURE CHANGES SIGN. MATHEMATICALLY, IT IS CHARACTERIZED BY THE FOLLOWING:

- THE SECOND DERIVATIVE $(y''(t_0) = 0)$
- THE CONCAVITY CHANGES AT (t_0) , I.E., $(y''(x))$ CHANGES SIGN AROUND (t_0) .

INFLECTION POINTS IN DIFFERENTIAL EQUATIONS

IN SOLUTIONS TO DIFFERENTIAL EQUATIONS, INFLECTION POINTS REFLECT CHANGES IN THE SOLUTION'S CONCAVITY, INDICATING SHIFTS IN THE SOLUTION'S BEHAVIOR. THESE POINTS ARE SIGNIFICANT BECAUSE THEY RELATE TO THE OSCILLATORY NATURE, STABILITY, AND QUALITATIVE SHAPE OF SOLUTIONS.

COMMON POINT OF INFLECTION

WHEN TWO SOLUTIONS (y_1) AND (y_2) SHARE THE SAME INFLECTION POINT (t_0) , IT INDICATES THAT BOTH SOLUTIONS CHANGE CONCAVITY AT THE SAME LOCATION. THIS SHARED FEATURE CAN REVEAL DEEP STRUCTURAL CORRELATIONS BETWEEN THE SOLUTIONS.

THE MAIN CLAIM: WHY COMMON INFLECTION POINTS IMPLY NON-FUNDAMENTALITY

INTUITIVE OVERVIEW

THE CORE IDEA IS THAT IF TWO SOLUTIONS (y_1) AND (y_2) POSSESS A COMMON POINT OF INFLECTION (t_0) , THEN THEIR BEHAVIORS ARE INTERTWINED AT THAT POINT IN A WAY INCOMPATIBLE WITH BOTH BEING PART OF A FUNDAMENTAL SET. THIS IS BECAUSE FUNDAMENTAL SOLUTIONS ARE LINEARLY INDEPENDENT AND EXHIBIT CERTAIN DIFFERENTIAL PROPERTIES THAT PREVENT THEM FROM SHARING SUCH SPECIFIC FEATURES SIMULTANEOUSLY.

FORMAL STATEMENT

CLAIM: IF (y_1, y_2) ARE SOLUTIONS TO A LINEAR DIFFERENTIAL EQUATION ON (I) , AND THERE EXISTS $(t_0 \in I)$ SUCH THAT BOTH (y_1) AND (y_2) HAVE A COMMON POINT OF INFLECTION AT (t_0) , THEN (y_1) AND (y_2) CANNOT FORM A FUNDAMENTAL SET.

RIGOROUS PROOF OF THE CLAIM

ASSUMPTIONS AND SETUP

LET'S CONSIDER THE SECOND-ORDER LINEAR DIFFERENTIAL EQUATION:

$$[y'' + p(x) y' + q(x) y = 0]$$

DEFINED ON AN INTERVAL (I) , WITH CONTINUOUS FUNCTIONS $(p(x))$ AND $(q(x))$.

SUPPOSE:

- (y_1, y_2) ARE SOLUTIONS TO THE EQUATION.
- BOTH SOLUTIONS HAVE THE SAME POINT OF INFLECTION AT $(t_0 \in I)$, I.E.,

$$[y_1''(t_0) = 0, \quad y_2''(t_0) = 0]$$

- THE SOLUTIONS ARE LINEARLY INDEPENDENT, I.E., THEIR WRONSKIAN $(W(t_0) \neq 0)$.

STEP 1: IMPLICATION OF INFLECTION POINTS ON THE SOLUTIONS

SINCE $(Y_1''(T_0) = Y_2''(T_0) = 0)$, AND BOTH ARE SOLUTIONS TO THE DIFFERENTIAL EQUATION, WE ANALYZE THEIR DERIVATIVES AT (T_0) :

$$[Y_i''(T_0) = -p(T_0) Y_i'(T_0) - q(T_0) Y_i(T_0) = 0]$$

FOR $(i = 1, 2)$.

THIS GIVES:

$$[p(T_0) Y_i'(T_0) + q(T_0) Y_i(T_0) = 0]$$

WHICH IS A LINEAR RELATION BETWEEN THE FUNCTION VALUE AND THE FIRST DERIVATIVE AT (T_0) .

STEP 2: THE CONDITIONS FOR BOTH SOLUTIONS

SINCE BOTH (Y_1) AND (Y_2) SATISFY THE SAME LINEAR RELATION AT (T_0) , WE HAVE:

$$[p(T_0) Y_1'(T_0) + q(T_0) Y_1(T_0) = 0]$$

$$[p(T_0) Y_2'(T_0) + q(T_0) Y_2(T_0) = 0]$$

THIS INDICATES THAT THE PAIRS $((Y_1(T_0), Y_1'(T_0)))$ AND $((Y_2(T_0), Y_2'(T_0)))$ LIE IN A SUBSPACE DEFINED BY THIS RELATION.

STEP 3: THE IMPLICATION FOR LINEAR INDEPENDENCE

THE WRONSKIAN AT (T_0) IS:

$$[W(T_0) = Y_1(T_0) Y_2'(T_0) - Y_2(T_0) Y_1'(T_0)]$$

SUPPOSE BOTH SOLUTIONS SATISFY THE INFLECTION CONDITION, LEADING TO THE RELATION:

$$[Y_i''(T_0) = 0 \text{ IMPLIES } p(T_0) Y_i'(T_0) + q(T_0) Y_i(T_0) = 0]$$

THIS RELATION CONSTRAINS THE DERIVATIVES AND FUNCTION VALUES, IMPLYING THAT THE PAIRS $((Y_i(T_0), Y_i'(T_0)))$ ARE LINEARLY RELATED.

IF BOTH SOLUTIONS SATISFY THIS SAME RELATION, THEN THEIR INITIAL DATA AT (T_0) ARE LINEARLY DEPENDENT, WHICH CAN BE SHOWN TO RESTRICT THE WRONSKIAN'S VALUE.

INDEED, WITH THIS CONSTRAINT, THE WRONSKIAN SIMPLIFIES TO:

$$[W(T_0) = Y_1(T_0) Y_2'(T_0) - Y_2(T_0) Y_1'(T_0) = 0]$$

BECAUSE THE DERIVATIVES ARE PROPORTIONAL TO THE FUNCTION VALUES, CAUSING THE TWO SOLUTIONS TO BE LINEARLY DEPENDENT IN THEIR DERIVATIVES AT (T_0) .

CONTRADICTION:

- If (Y_1) and (Y_2) are linearly independent, then $(W(T_0) \neq 0)$.
- BUT THE ABOVE ARGUMENT SHOWS THAT THE WRONSKIAN MUST BE ZERO IF BOTH SOLUTIONS SHARE A COMMON INFLECTION POINT (T_0) .

THIS CONTRADICTION IMPLIES THAT BOTH SOLUTIONS CANNOT BE LINEARLY INDEPENDENT IF THEY SHARE THE SAME INFLECTION POINT.

CONCLUSION:

- THE ASSUMPTION THAT (Y_1, Y_2) ARE BOTH FUNDAMENTAL (AND THUS LINEARLY INDEPENDENT) SOLUTIONS IS INCOMPATIBLE WITH THE EXISTENCE OF A COMMON INFLECTION POINT (T_0) .
- THEREFORE, IF TWO SOLUTIONS HAVE A COMMON INFLECTION POINT (T_0) , THEY CANNOT BOTH BE FUNDAMENTAL SOLUTIONS.

BROADER SIGNIFICANCE AND APPLICATIONS

IMPACT ON SOLUTION STRUCTURE

THIS RESULT UNDERSCORES THE DELICATE RELATIONSHIP BETWEEN THE GEOMETRIC FEATURES OF SOLUTIONS (LIKE INFLECTION POINTS) AND THEIR ALGEBRAIC INDEPENDENCE. IT HIGHLIGHTS THAT SHARED GEOMETRIC FEATURES IMPOSE RESTRICTIONS ON THE LINEAR INDEPENDENCE OF SOLUTIONS, WHICH IS VITAL FOR UNDERSTANDING THE STRUCTURE OF SOLUTION SPACES.

PRACTICAL IMPLICATIONS

- OSCILLATORY SYSTEMS: IN PHYSICAL SYSTEMS MODELED BY DIFFERENTIAL EQUATIONS, THE PRESENCE OF COMMON INFLECTION POINTS CAN INDICATE UNDERLYING SYMMETRIES OR CONSTRAINTS PREVENTING SOLUTIONS FROM FORMING A FUNDAMENTAL SET.

Prove That If Y1 And Y2 Have A Common Point Of Inflection T0 In I Then They Cannot Be A Fundamental

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