

Calculator City and Mr. Tex Instruments

by – J. Marvel

Activity overview

Students help Calculator City determine where to place the statue of Mr. Tex Instruments by finding the circumcenter and incenter of a triangle.

Concepts

Incenter and Circumcenter of a Triangle.

Teacher preparation

Students should have a basic understanding of triangles, angle bisectors and perpendicular bisectors. A basic overview of incenter and circumcenter may be helpful as well.

Classroom management tips

Students can attempt the activity(or part of it) on paper. This may show them how difficult it is to precisely calculate the incenter and circumcenter.

TI-Nspire Applications

Incenter and Circumcenter_Calc.tns

Step-by-step directions

Students should open Incenter and Circumcenter_Calc.tns file and read the introduction

Page 2.1 has students begin by measuring the angles of the given triangle and determining what type of triangle it is. Answers should be typed in the provided section.

1.1 2.1 2.2 3.1 DEG AUTO REAL

Calculator City has decided to honor Mr. Tex Instruments with a statue of his likeness in the middle of their town park. The park can be found in the center of town in the shape of a triangle. The town people have decided that the statue of Mr. TI should be the exact same distance from each of the three streets surrounding the park. Your task is to find an outstanding location at which the statue of



TEXAS INSTRUMENTS

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Materials: Incenter and Circumcenter_Calc.tns



Activity extensions

• Students can be given the task of finding the incenter or circumcenter of a triangular location in the school, town or national map. A scavenger hunt of sorts could be created.

Student TI-Nspire Document

Incenter and Circumcenter_Calc.tns



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