EDGEWORTH

2 diagrams selected | EXPORT | SHOW PROBLEM

j

Advanced options

Domain Program

Style Program

Add Statements

Types: Triangle, Point, Angle, Segment

Constructors: MkSegment, MkMidpoint, InteriorAngle, MkTriangle

Functions: Bisector, MidSegment

Predicates: All

Edit Statements

Delete Statements

a

Pick a Domain

Geometry

GENERATE NEW PROBLEM | SELECT FROM PRESETS

Preset

c04p01: Congruent triangles

Prompt:

In which of the following diagrams are triangles $\triangle DEC$ an $\triangle DEA$ congruent?

Input Scenario

b

```
Point A, B, C, D, E
Let AE := Segment(A, E)
Let EC := Segment(E, C)
Let AB := Segment(A, B)
Let BC := Segment(B, C)
Let CD := Segment(C, D)
Let DA := Segment(D, A)
Let ED := Segment(E, D)
Let EB := Segment(E, B)
Collinear(A,E,C)
Collinear(B,E,D)
Angle r := InteriorAngle(B,E,C)
EqualLength(ED, EB)
EqualLength(AE, EC)
EqualLength(AE, EC)
RightMarked(r)
AutoLabel A, B, C, D, E
```

c

Mutator seed:

test2

d

Number of variations to generate:

1 10 20 30 40 50

Delete 20% | Edit 80%

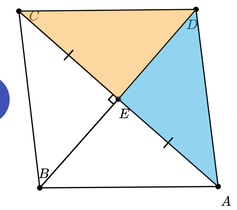
e

GENERATE VARIATIONS

Advanced options i

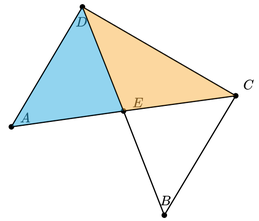
Original diagram

f



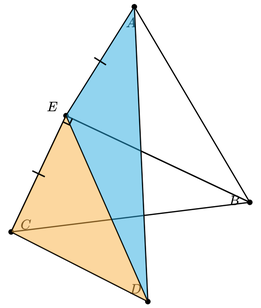
Mutated diagram #1

g

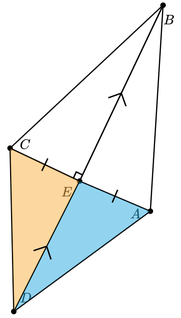


Mutated diagram #2

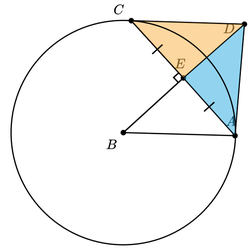
h



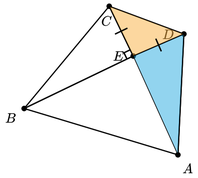
Mutated diagram #3



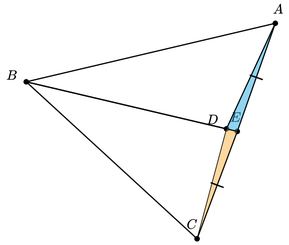
Mutated diagram #4



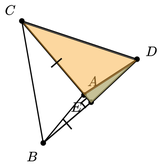
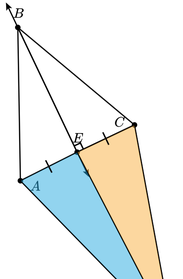
Mutated diagram #5



Mutated diagram #6



Mutated diagram #7



Mutated diagram #8