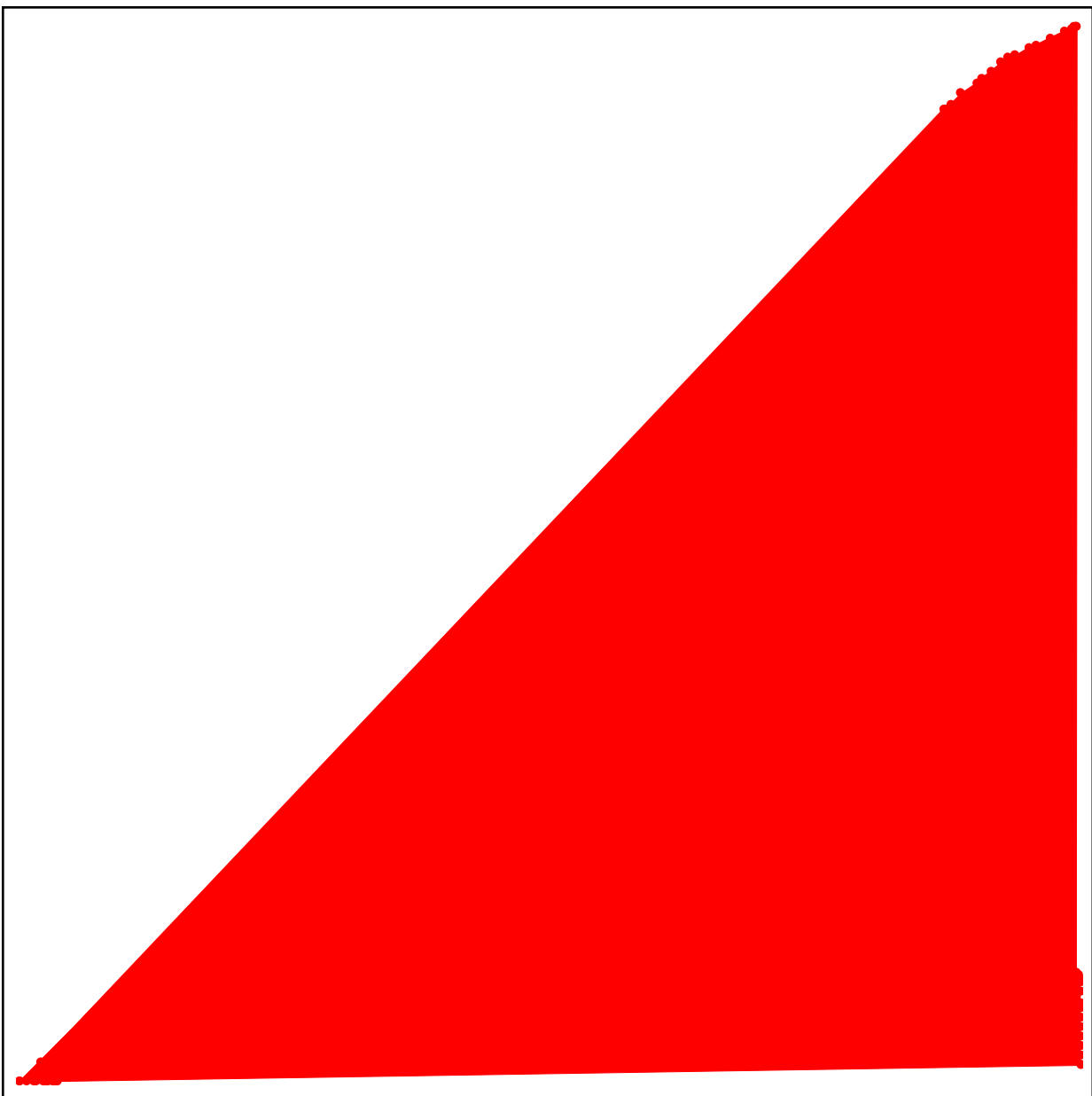


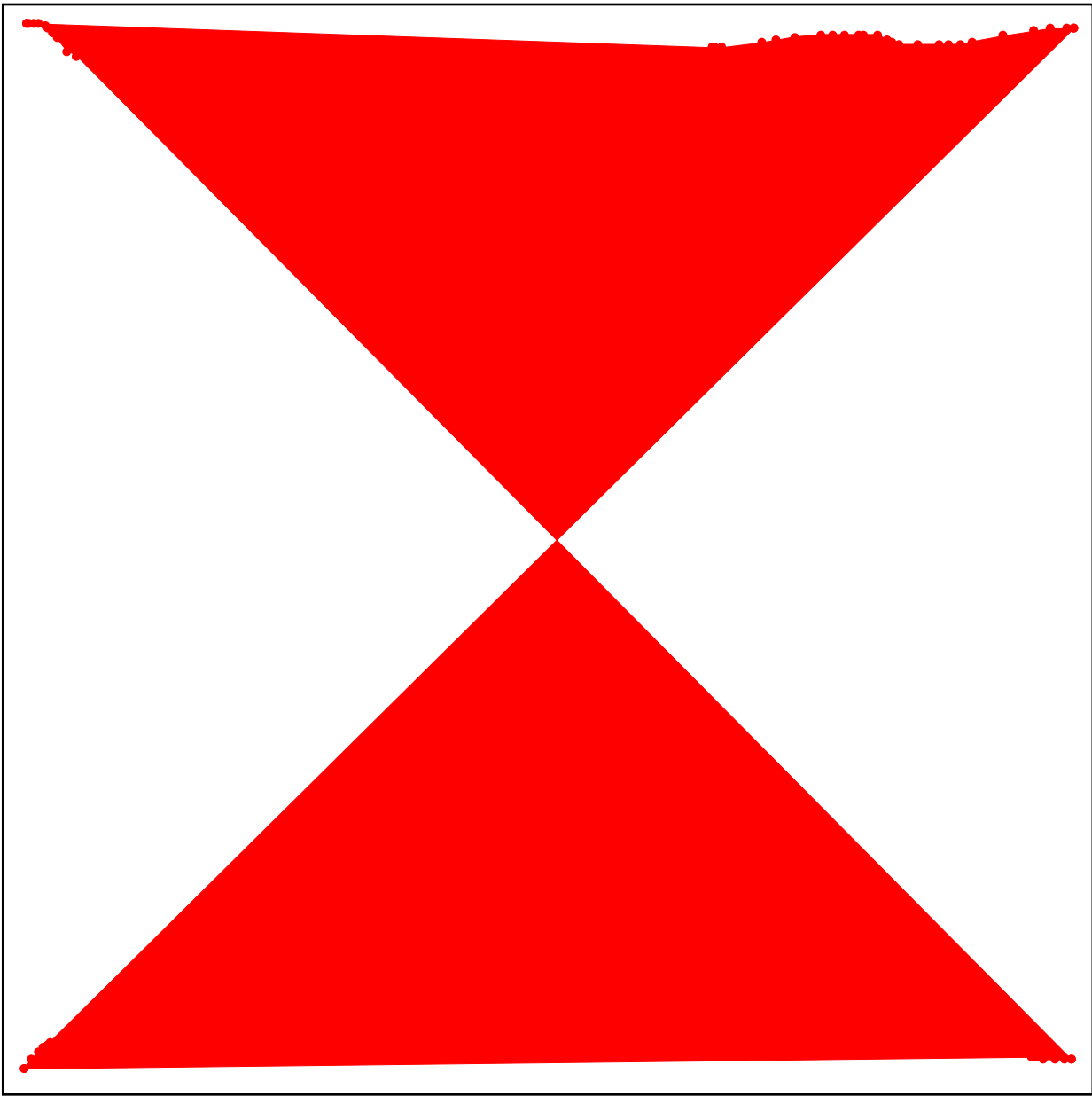
```
In[460]:= DynamicModule[{list = {}}, area = .;
  EventHandler[
    Dynamic[
      Framed@Graphics[{Red, Point[ReIm /@ list], Polygon[ReIm /@ list]},
        PlotRange -> 1 / 2]],
    {"MouseDown" :>
      (area = areaPolygon[
        AppendTo[list, Complex @@ MousePosition["Graphics"]])]}]]
```



Starting in the lower left of this unit square, approximate half its area with a triangle traced roughly twice, creating an area roughly 1:

```
In[26]:= Dynamic@area
Out[26]= 0.9457880036153912

In[461]:= DynamicModule[{list = {}}, area2 = .;
  EventHandler[
    Dynamic[
      Framed@Graphics[{Red, Point[ReIm /@ list], Polygon[ReIm /@ list]},
        PlotRange -> 1 / 2]],
    {"MouseDown" :>
      (area2 = areaPolygon[
        AppendTo[list, Complex @@ MousePosition["Graphics"]])]}]]
```



Again heading east from the lower left, draw a non-simple quadrilateral whose top “half” more than cancels out the positive area of the bottom “half”.

```
In[458]:= Dynamic@area2
Out[458]= -0.01746514425395444
```