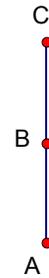
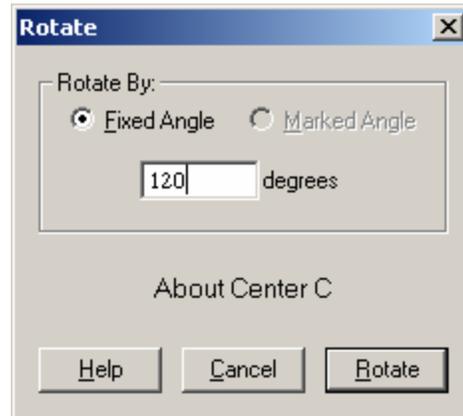


Fractals

Draw a vertical segment
Construct its midpoint
Label the points A, B, C

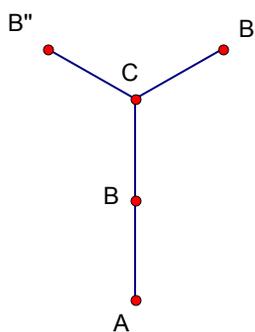


Highlight point C
Click Transform/Mark Center
Highlight Point B
Click Transform/Rotate
Rotate by Fixed Angle 120°
Click Rotate

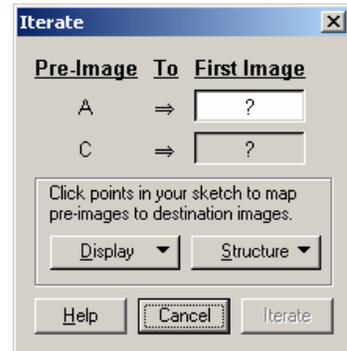


With this new point highlighted,
Click Transform/Rotate
Rotate by Fixed Angle 120°
Click Rotate

Construct a segment from Point C to each of the newly rotated points. Label the points (B' and B'').



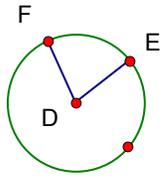
Highlight Points A and C, in that order
Click Transform/Iterate
Highlight C then B'
Click Structure/Add Map
Highlight C then B''
Click Iterate



Click the Plus and Minus symbols to
add or delete the number iterations.

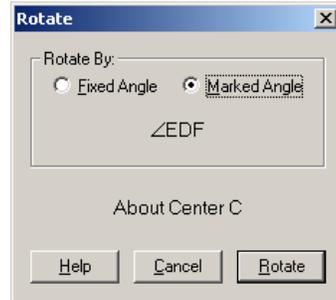
Same fractal with a twist...
Click File/New Sketch
Draw a vertical segment
Construct a point on segment
Label the points A, B, C





Draw a small circle off to the right.
Construct two segments from the center to the circle creating an angle
Label the center D and the other two points E and F.
Highlight points E, D and F, in that order.
Click Transform/Mark Angle

De-select everything (Click in a white area.)
Highlight Point C
Click Transform/Mark Center
Highlight Point B
Click Transform/Rotate/
Marked Angle ► EDF
Click Rotate



With this new point highlighted,
Click Transform/Rotate
Marked Angle ► EDF
Click Rotate

Construct a segment from Point C to each of the newly rotated points. Label the points (B' and B'').

Highlight Points A and C, in that order
Click Transform/Iterate
Highlight C then B'
Click Structure/Add Map
Highlight C then B''
Click Iterate
Click the Plus sign about 8 times.

Move point B and observe
Move Point E around the circle and observe.

Animate point E with an animation button.