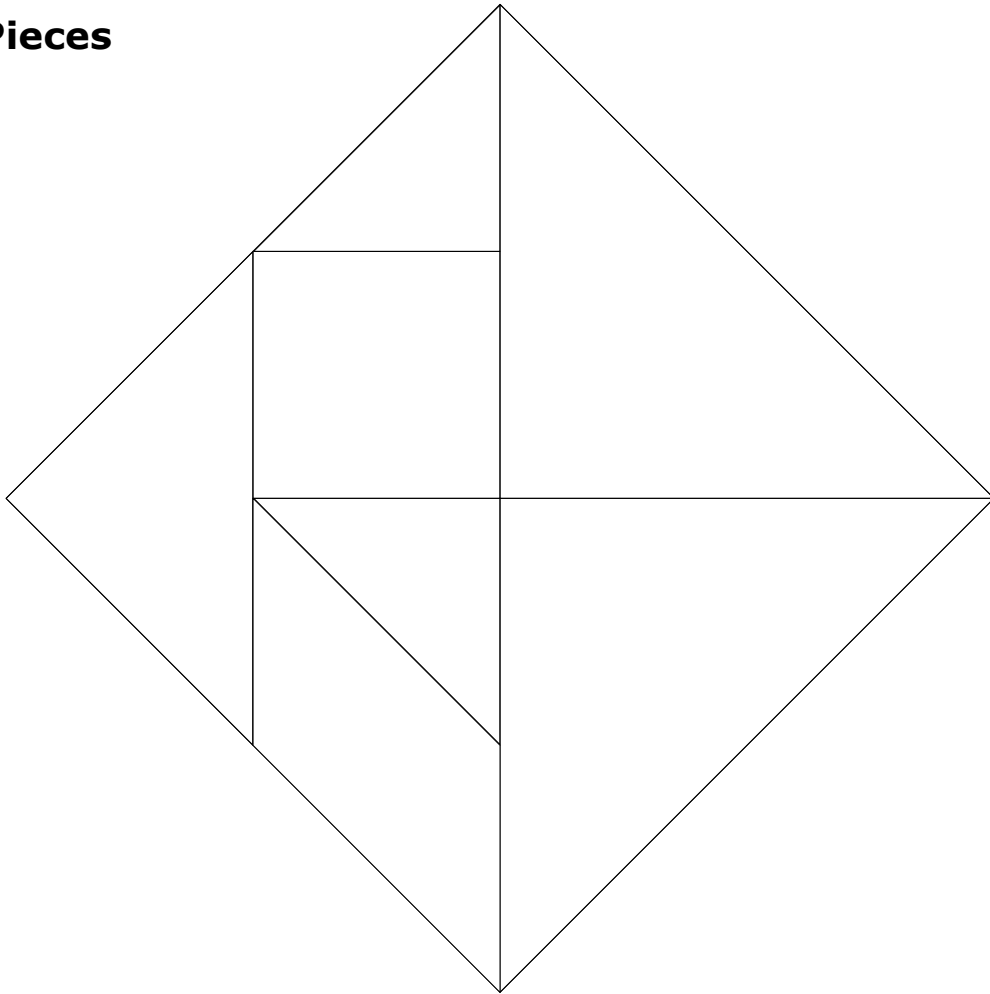


## Tangram Pieces



I constructed all of these with AutoShapes except the parallelogram and the medium triangle. I started with the diamond tool and held the shift key down to constrain a square. Then I used the right triangle tool to make the big triangles.

It was handy to know that holding the Shift key constrains angles in  $45^\circ$  increments.

It was also handy to know that 4 little triangles make one big one, and that the hypotenuse of the middle-sized triangle (what Word will call the height in this orientation) is equal to the height of one of the little ones times the square root of 2. (Programs > Accessories > Calculator will do the figuring for you; then you can copy it and paste it into the Format Object world back in Word.)

It's a fun exercise to fold a tangram, too, given a rectangular sheet of paper.

For online tangram challenges, try the **National Library of Virtual Manipulatives** [http://nlvm.usu.edu/en/nav/frames\\_asid\\_290\\_g\\_3\\_t\\_3.html?open=activities](http://nlvm.usu.edu/en/nav/frames_asid_290_g_3_t_3.html?open=activities)

For more on tangrams, see "Tangram" at **Wikipedia**: <http://en.wikipedia.org/wiki/Tangram>