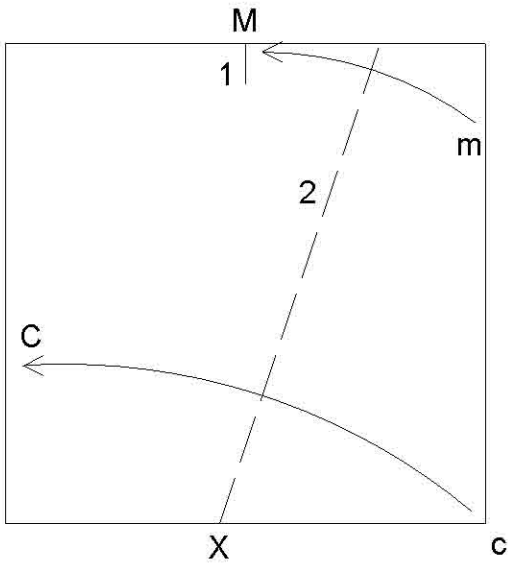# Folding a Pentagon from a Square
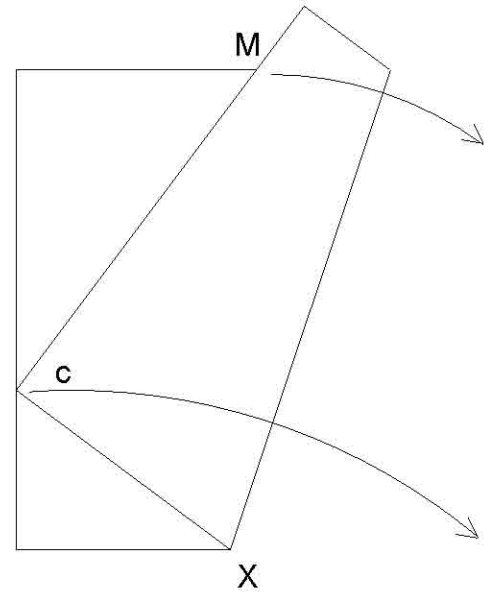## by a method described by Ralph Jones
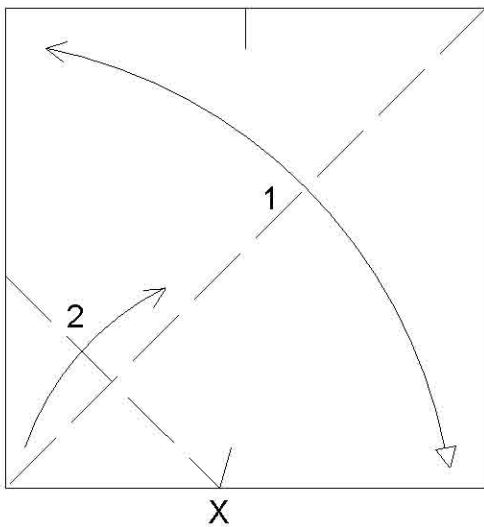## diagrammed by James Clark

←1.1 Pinch a landmark (M) at the midpoint of the top edge of the square.

←1.2 Make the landmark X by folding edge m to landmark M and corner c to the edge C. Pinch only at X.

Actually, landmark X should be a tiny bit closer to the left corner, 1/32th of an inch for 7-inch paper. (Corner c 1/16th inch past the edge.)
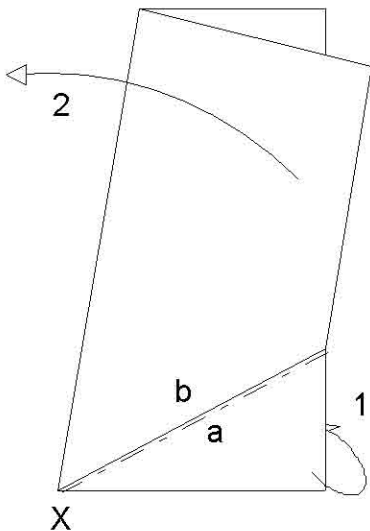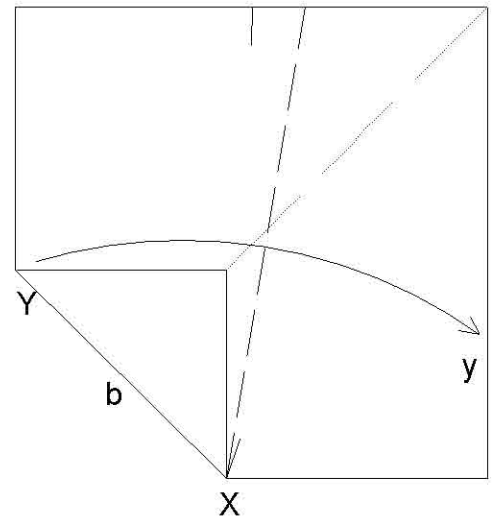
2→ Like this. Unfold.

←3.1 Crease (fold and unfold) the diagonal as shown.

←3.2 Valley-fold the corner to the diagonal, with the fold starting at landmark X.

4→ Valley-fold corner Y to edge y, pivoting at landmark M.

Folded edge b is the first side of the pentagon. The step-4 fold and the diagonal pass through the center of the pentagon.

←5.1 Mountain-fold the bottom layer, making a copy of edge b.

←5.2 Unfold the fold made in step 4.

The new edge (a) is the second side of the pentagon.

6.1→ Fold on the diagonal.

6.2→ Make side c, copying a.

6.3→ Unfold the diagonal.