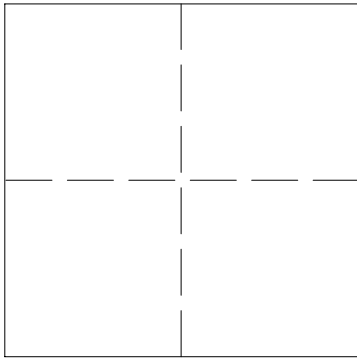
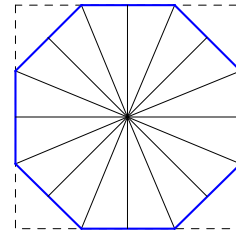


Regular Octagon

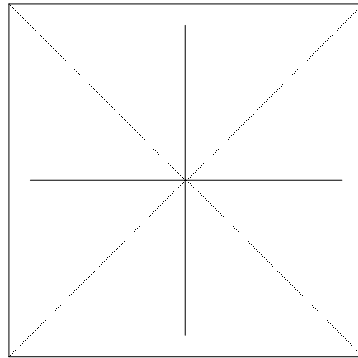
folded from a square

diagrams by Jim Clark

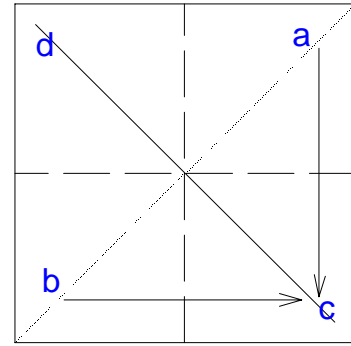
'crease' = fold and unfold



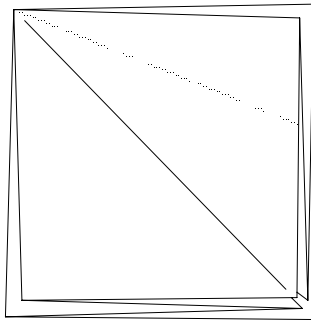
1. Valley-crease in half horizontally and vertically



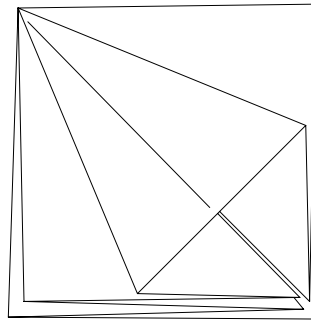
2. Mountain-crease on both diagonals.



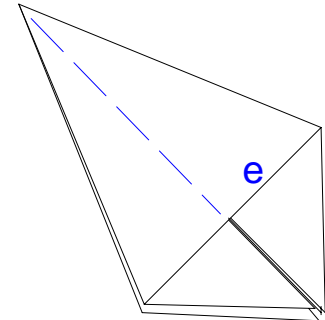
3. Make a preliminary base: Using the valley folds shown, bring mountain folds **a** and **b** together at **c**, and bring corner **d** over corner **c**.



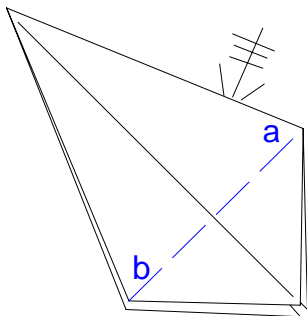
4. Lift and squash-fold one of the flaps.



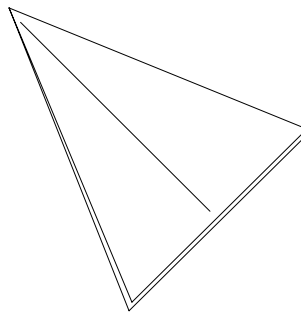
5. Like this. Repeat step 4 on 3 other flaps, rotating each into position.



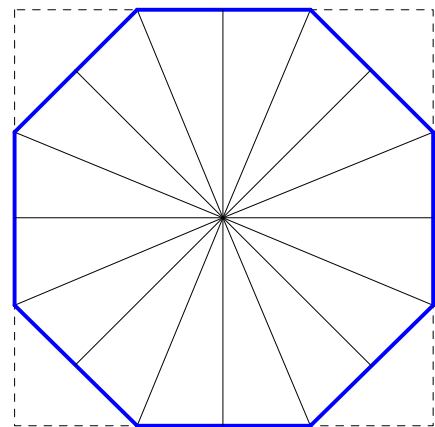
6. Rotate one flap to hide the edge **e**.



7. Valley-fold from corner **a** to **b**, along hidden edge below. Then cut along the new fold. Rotate the flaps to repeat this in 3 other positions.



8. Four corners cut off, like this. Now unfold completely.



9. The octagon fills the square, with creases on lines of symmetry, like this.