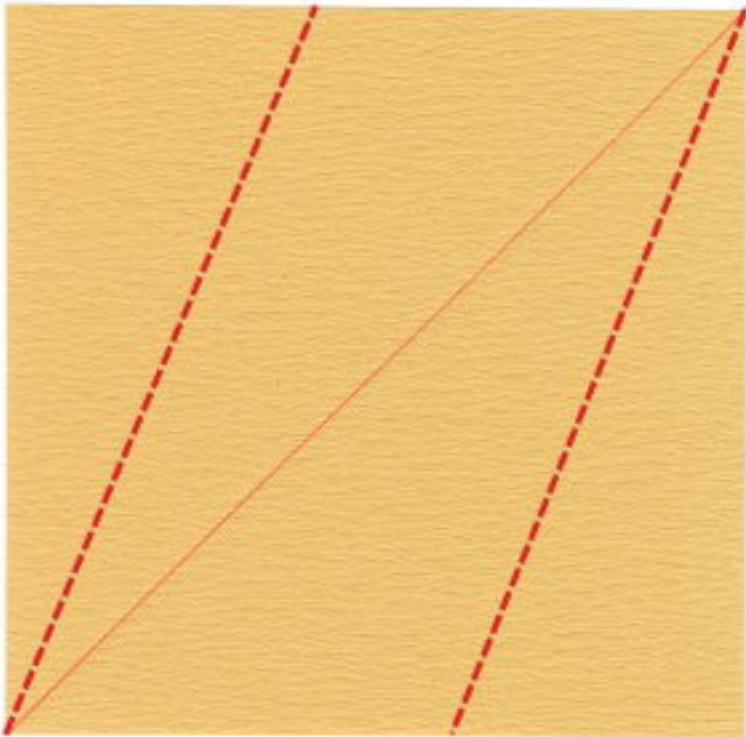


1.

Fold (mountain fold) the paper in half diagonally.

--- Mountain Fold
--- Valley Fold



2.

Unfold the paper so that you can see the crease that you have just made.

*we have used a red pen to distinctively show the "crease"

Prepare for two valley-folds.

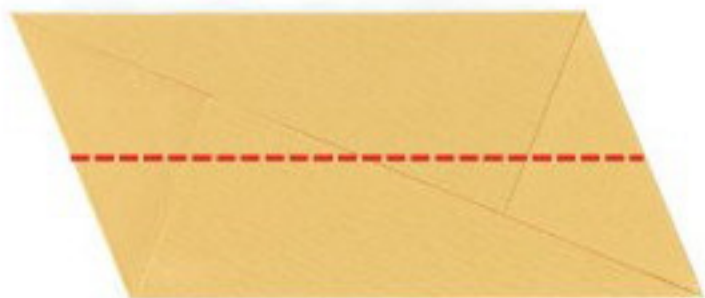


3.

Apply two valley-folds shown in the step #2.

--- Mountain Fold

--- Valley Fold



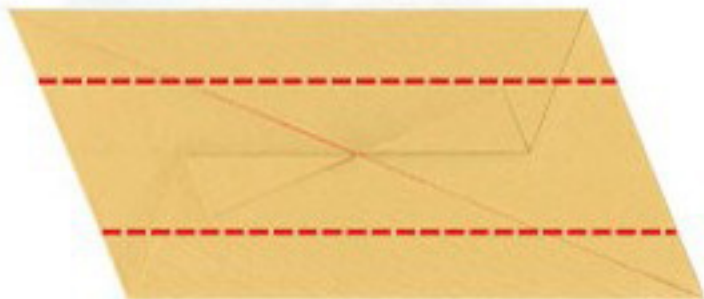
4.

Rotate the paper by 67.5 degrees in the clockwise direction so that the slanted vertical line of edge becomes a horizontal line.

Prepare for a valley fold in half.



--- Mountain Fold
--- Valley Fold



5.
Valley-fold according to the
step #4.

6.
Unfold the previous valley-fold.
Prepare for two valley-folds.



7.

Valley fold along two red dash-line in the step #6.

--- Mountain Fold
--- Valley Fold



8.

Turn the paper over.

Prepare for two valley-folds.

--- Mountain Fold

--- Valley Fold



9.

Apply two valley-folds of the step #8.

Prepare for another two valley-folds.



10.

Valley-fold according to the step #9.

--- Mountain Fold

- - - Valley Fold



11.

Turn the paper over.

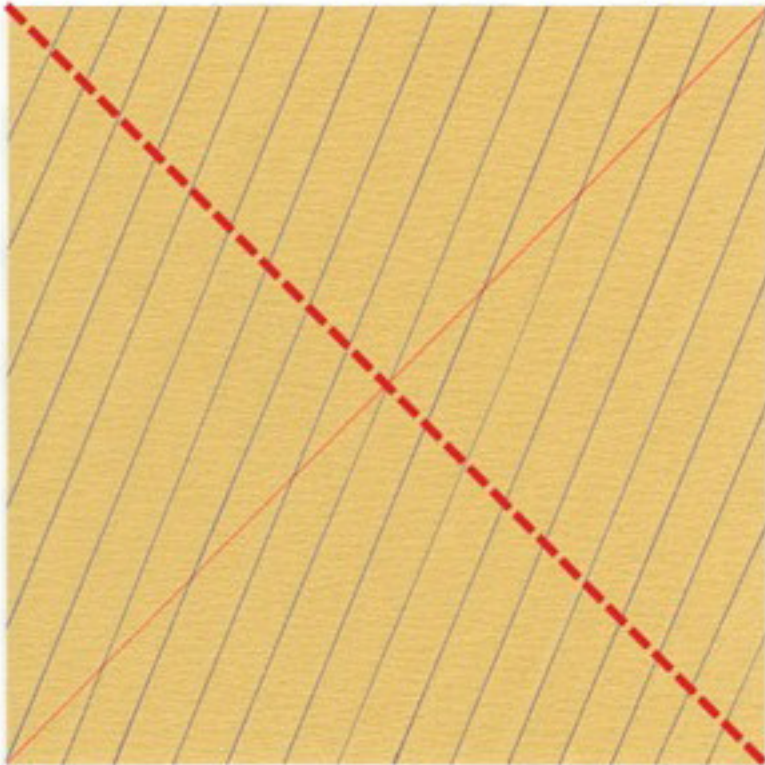
Prepare for another valley-fold.



12.

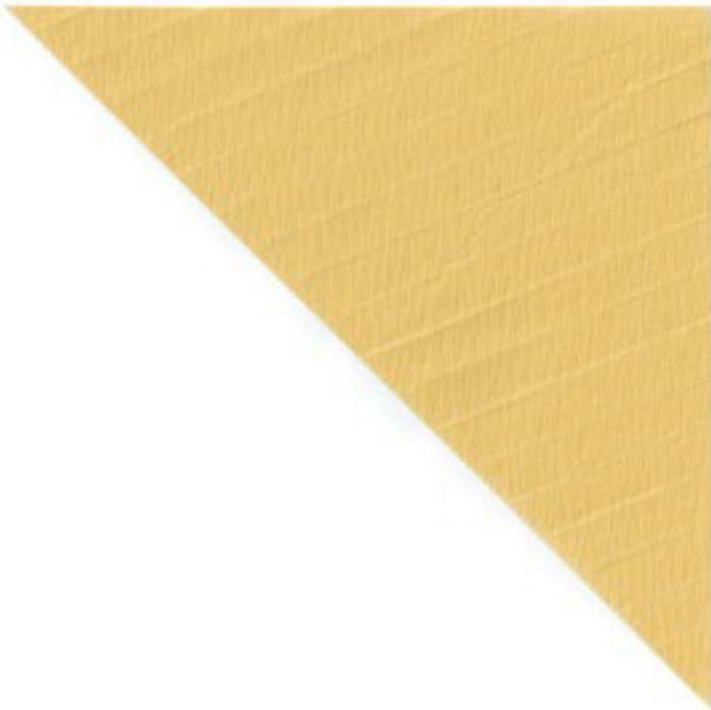
Valley-fold according to the
step #11.

- Mountain Fold
- Valley Fold



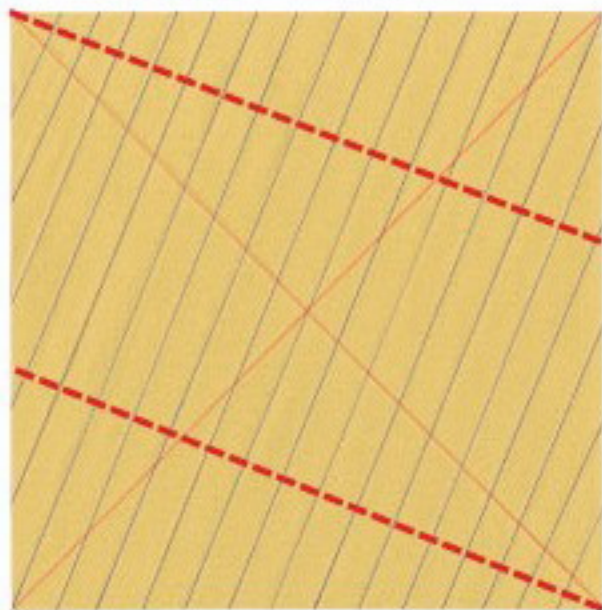
13.
Unfold everything and draw
lines on all creases.

Prepare a valley-fold.



14.
Valley fold along the red dash-
line shown in the step #13.

- Mountain Fold
- Valley Fold



15.

Unfold and draw a line on the crease.

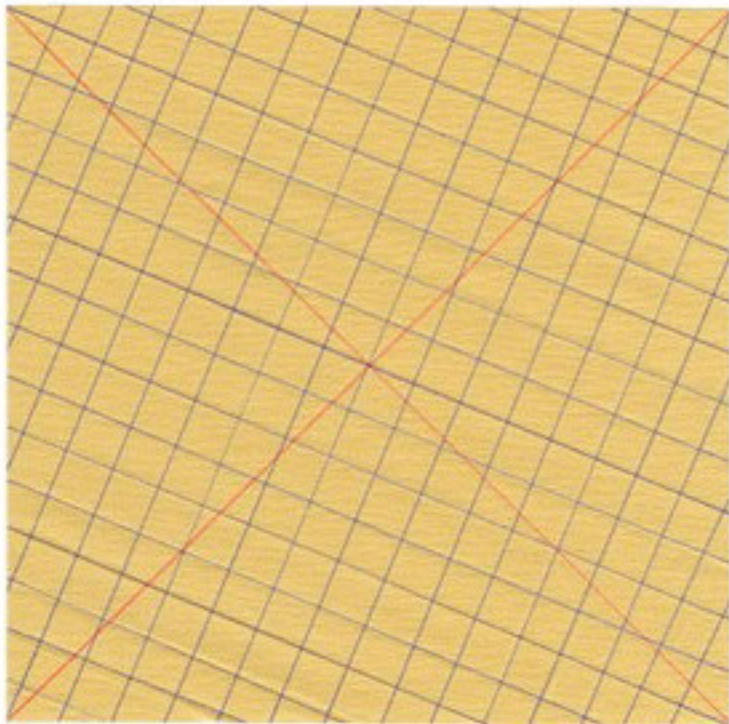
Prepare for a valley-fold along the red dash-lines.



16.

Valley-fold according to the step #15.

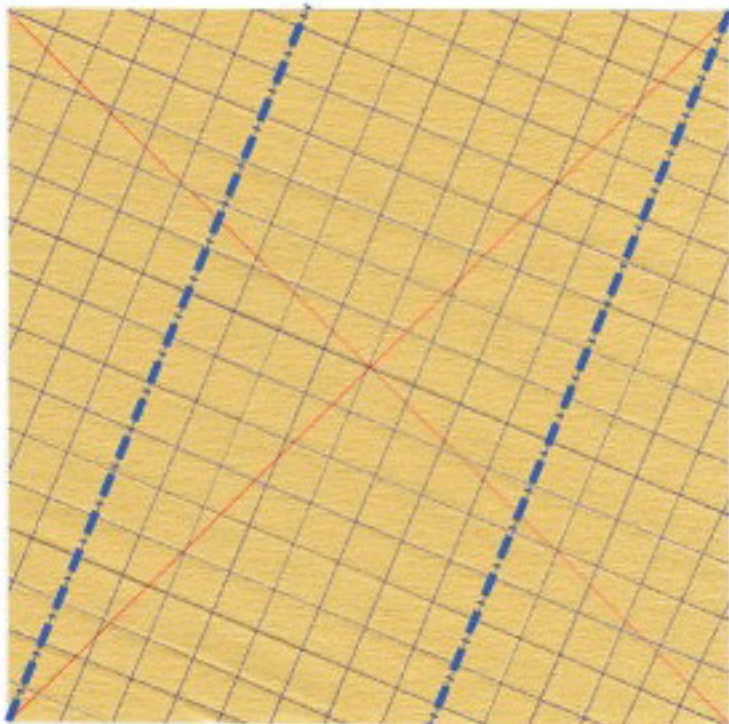
This is the same as the step #4.



17.

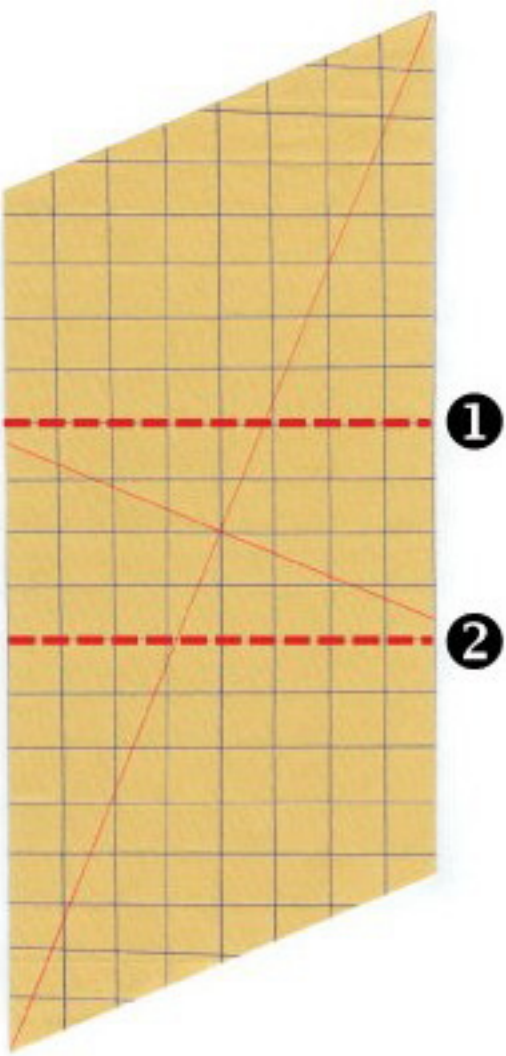
Repeat the steps #6-13.

--- Mountain Fold
- - - Valley Fold



18.

Prepare for two mountain-folds.



19.

Apply two valley-folds according to [the step](#) #18.

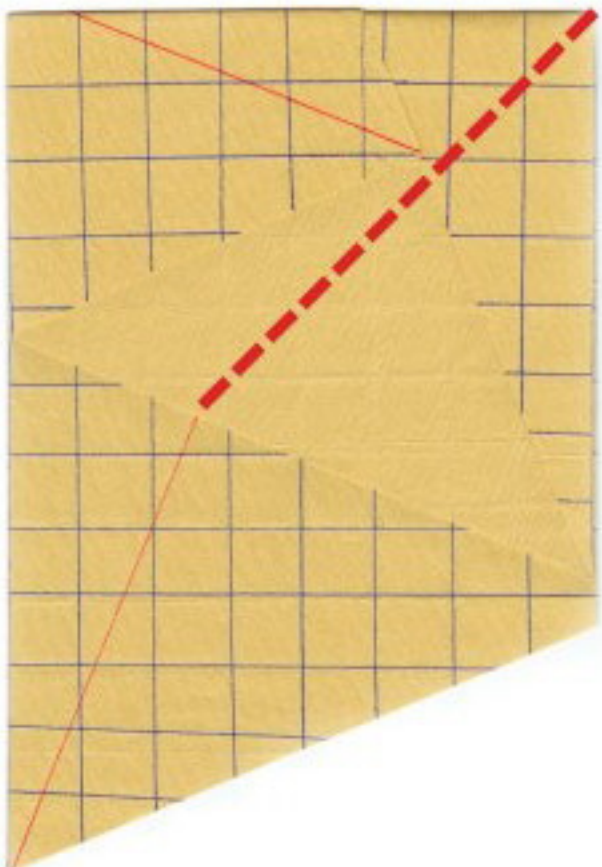
Prepare for one valley-fold marked as (1).

We will not apply the valley-fold marked as (2). We will save it for the step #25.



Mountain Fold

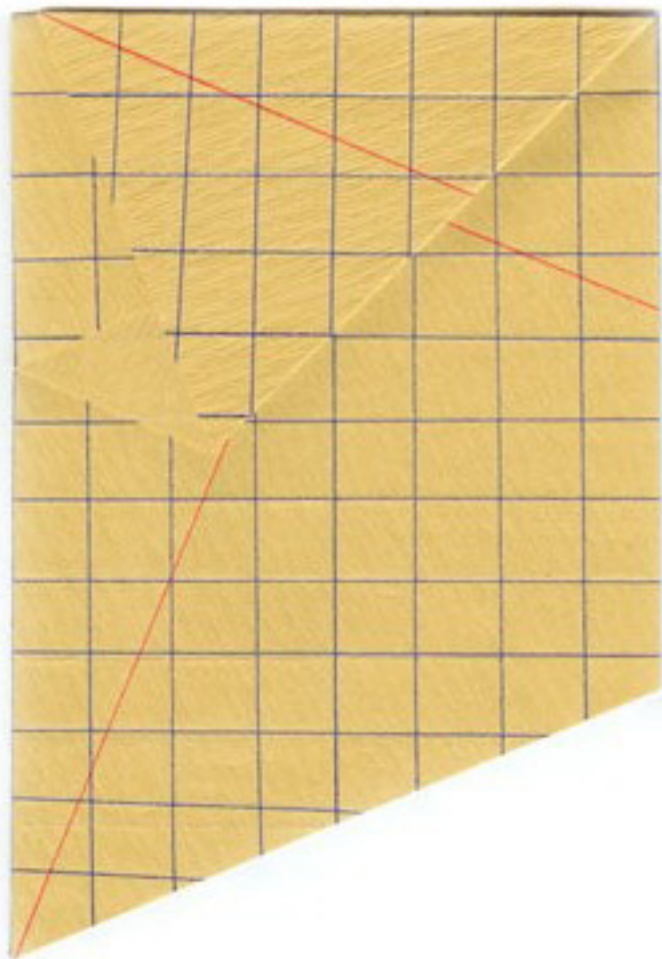
Valley Fold



20.

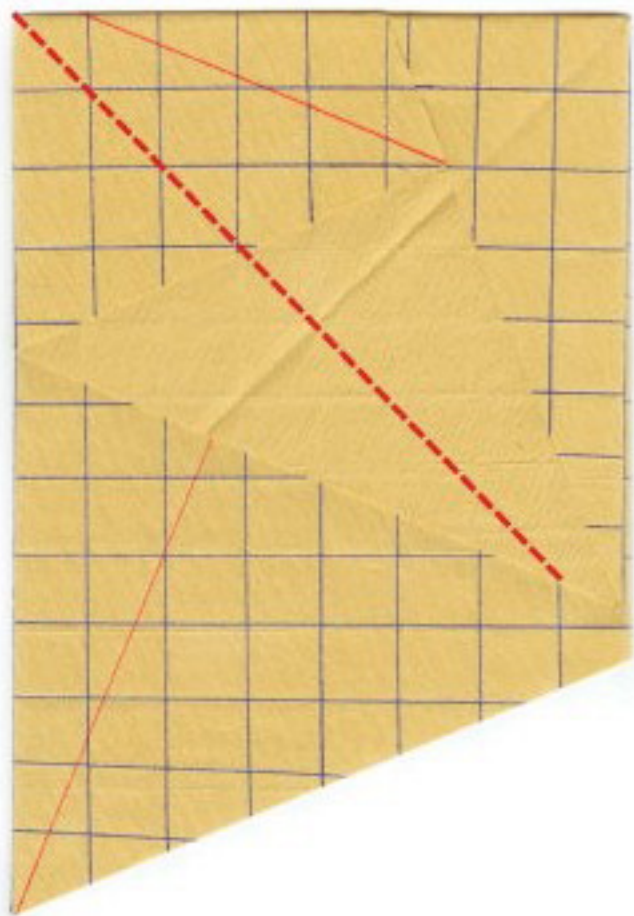
Apply the valley-fold of the step #19-(1).

Prepare for another valley-fold.



21.
Valley-fold according to the
step #20.

--- Mountain Fold
- - - Valley Fold

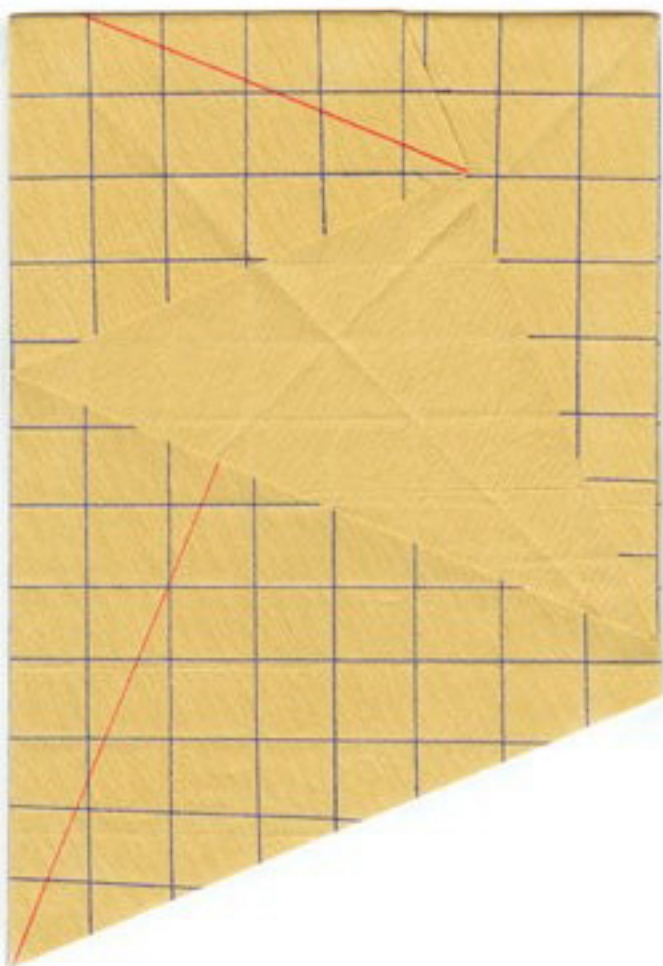


22.
Unfold the previous fold of the
step #21. You can clearly see
the crease.

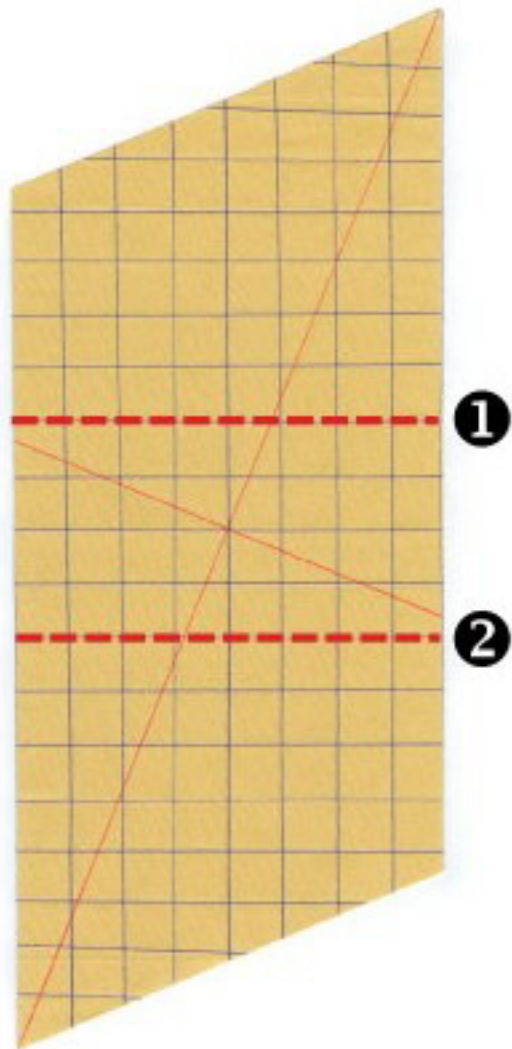
Prepare for another valley-fold
(red-dash line).



23.
Apply the valley-fold of the step
#22.



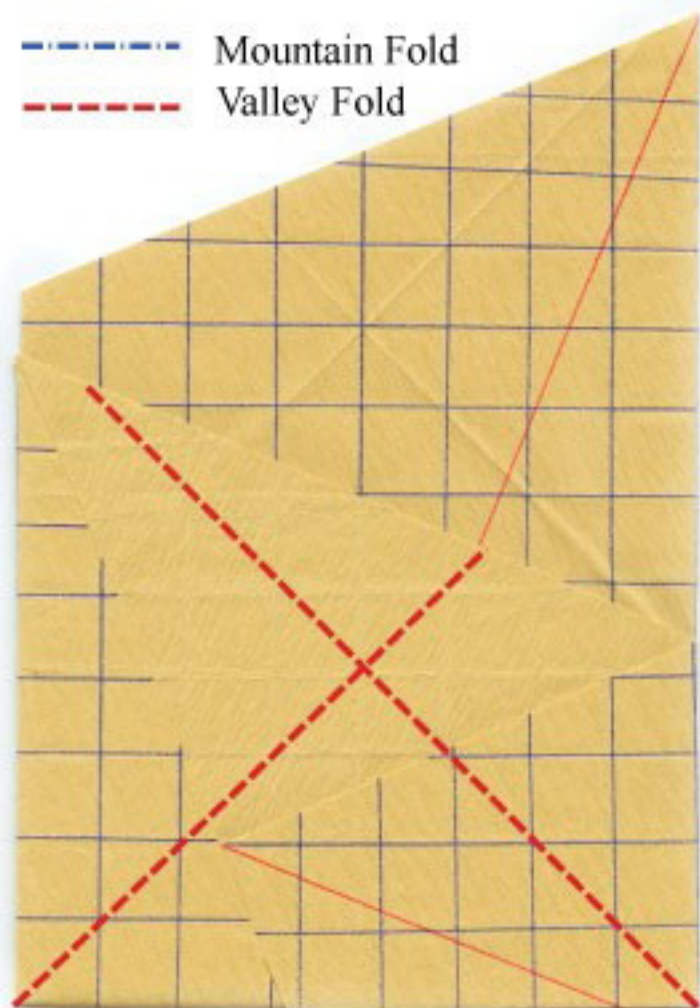
24.
Unfold the previous folding.
One can clearly see two
creases.



25.

Now, we go back to the step #19 and remember the saved valley-fold of (2).

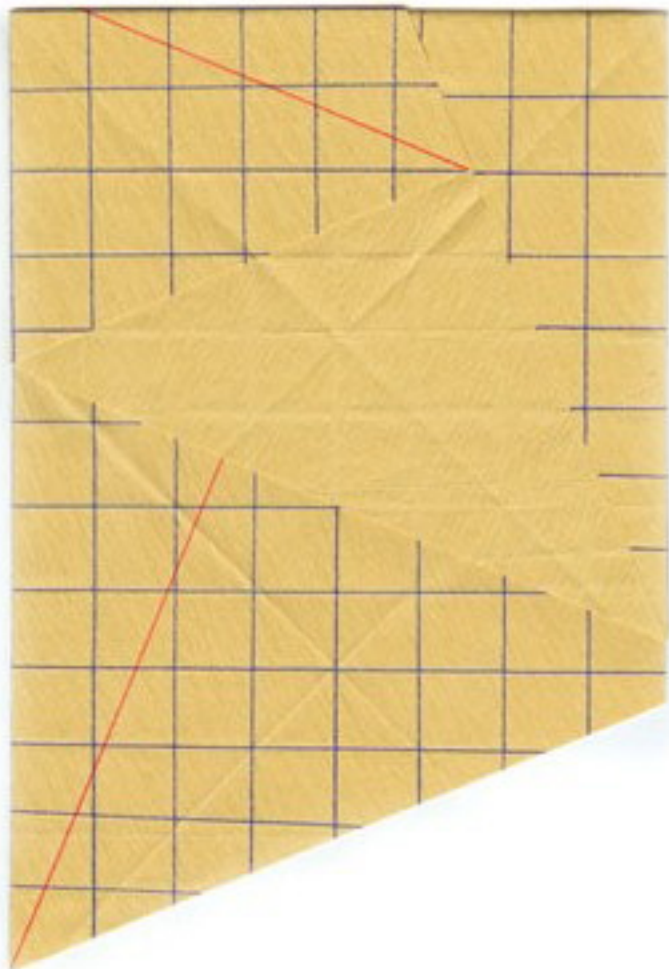
--- Mountain Fold
- - - Valley Fold



26.

Apply the saved valley-fold of the step #25-(2).

Prepare for two valley-folds
We will repeat the steps #20-24.

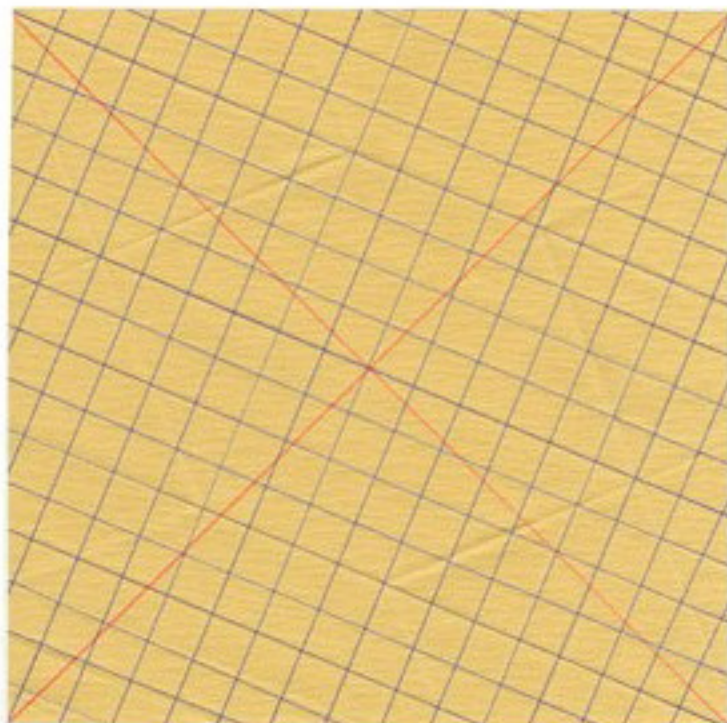


27.

Valley-fold along two red dash-lines shown in [the step #25](#). This will be the exactly same as repeating the steps #20-24.

Unfold two valley-folds and you can clearly see two creases from these two foldings.

Altogether we have four creases.

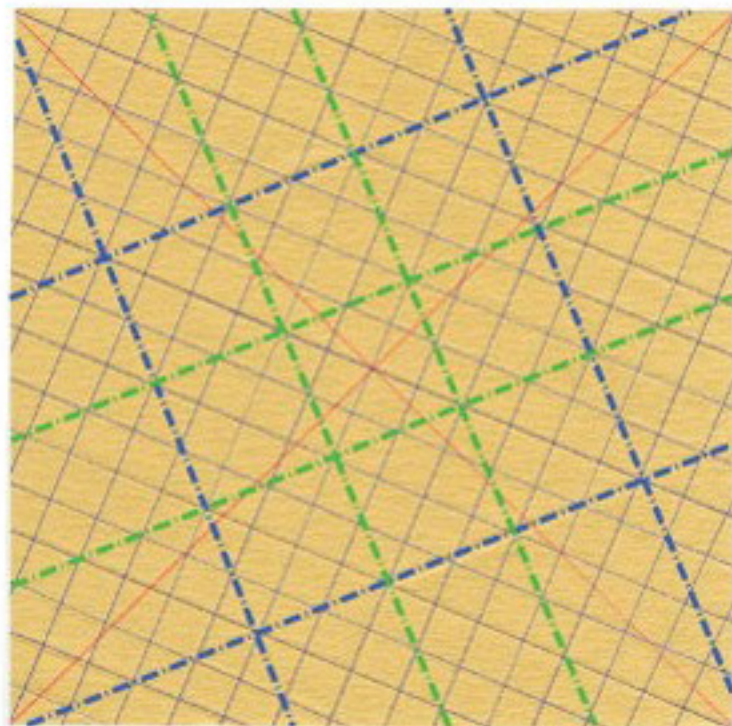


28.

Open the paper.

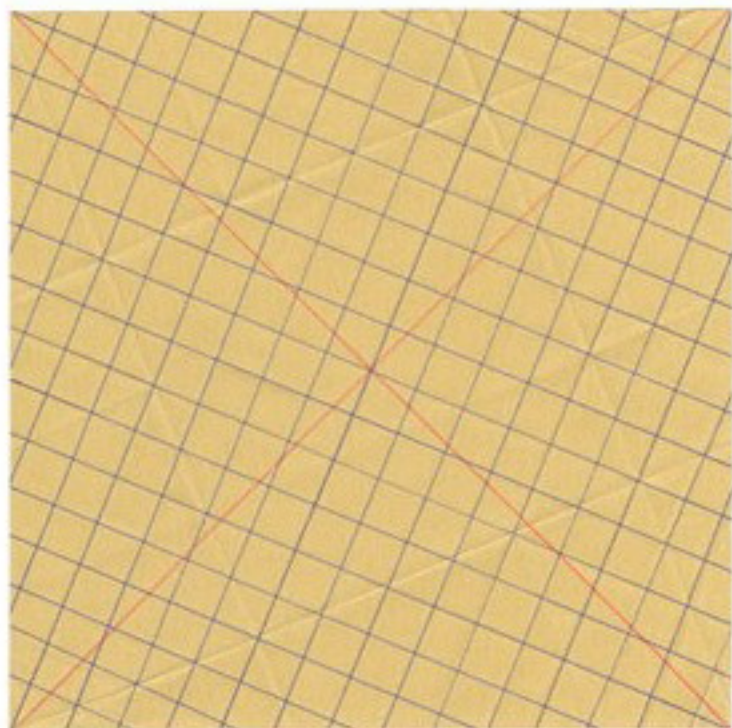
You should be able to find eight creases.

- Mountain Fold
- Mountain Fold



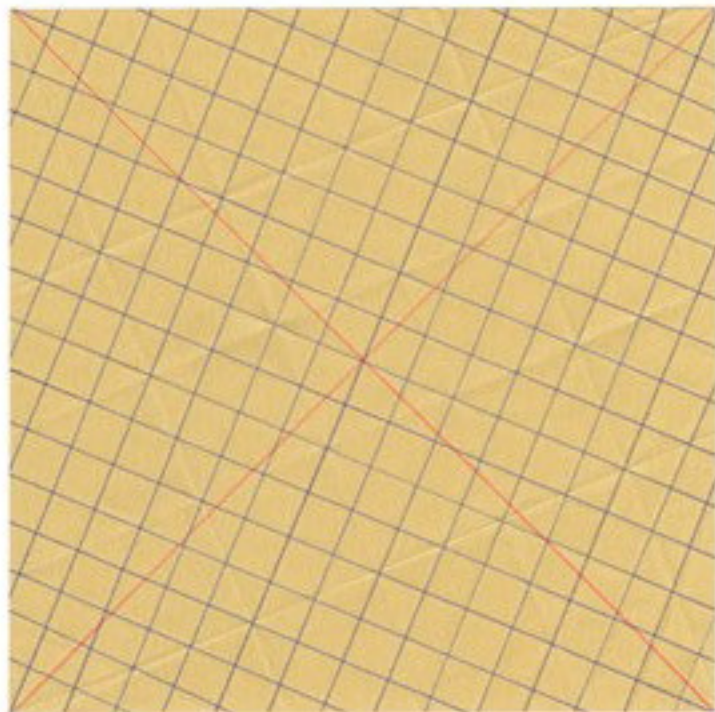
29.

There are eight creases. Fold along all creases. (1) First, fold along blue dash-lines and then (2) fold along green dash-lines.



30.

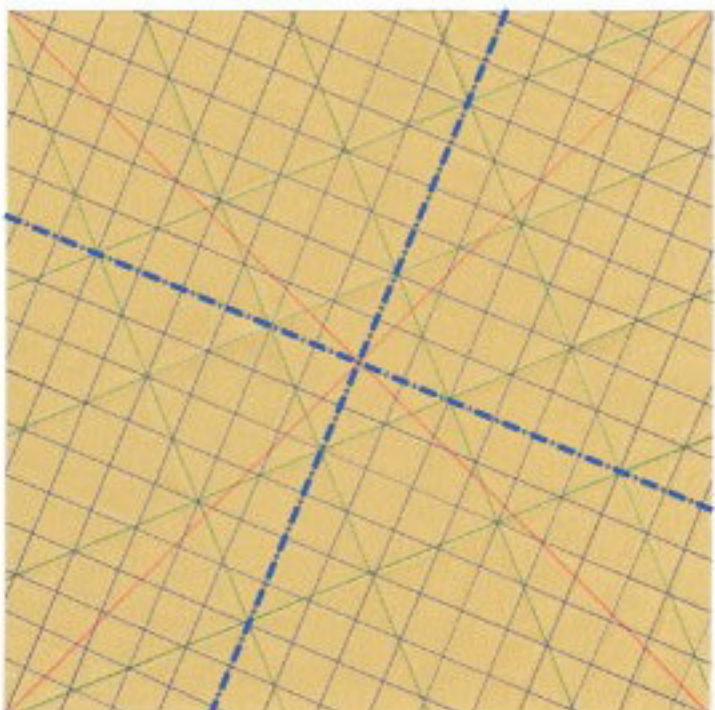
This is after the folding of the step #29-(1).



31.

This is after the folding of the step #29-(2). .

--- Mountain Fold
--- Valley Fold



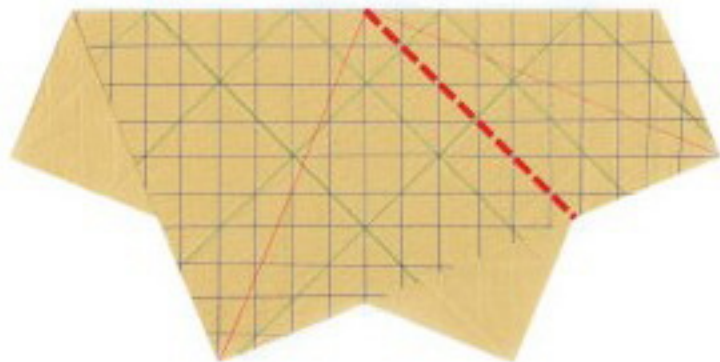
32.

Let's draw green lines on the creases.

Prepare for a mountain fold on a blue dotted-dash line of (1).

We will be folding through steps #33-44 based on the line (1). Then we will repeat the steps #33-44 for the line (2).

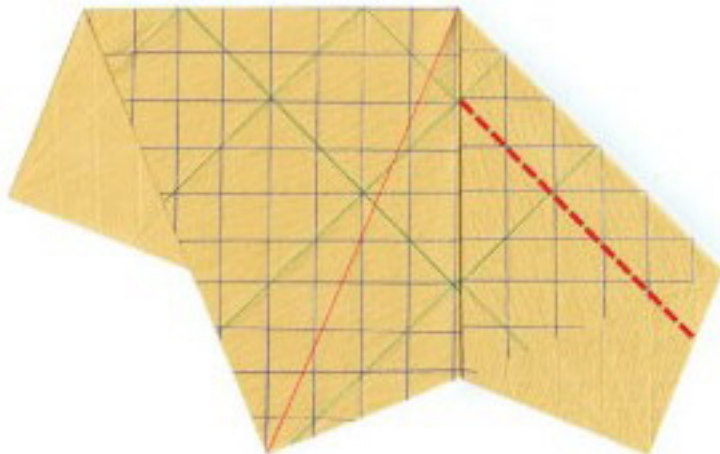
- Mountain Fold
- Valley Fold



33.
Apply the mountain-fold of the
step #32.

Prepare for a valley-fold.

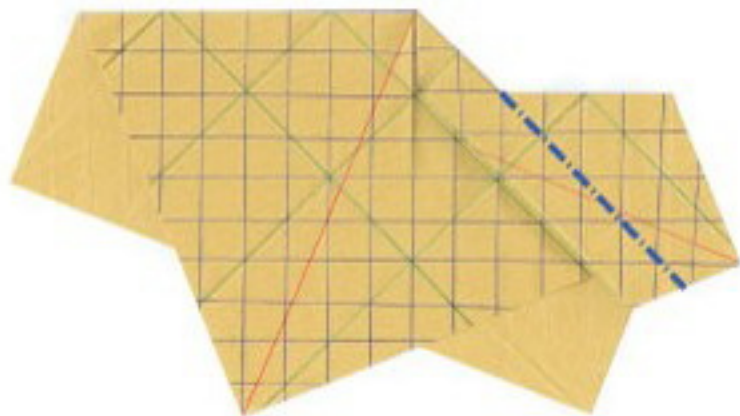
- Mountain Fold
- Valley Fold



34.
Apply the valley-fold of the step
#33.

Prepare for another valley-fold.

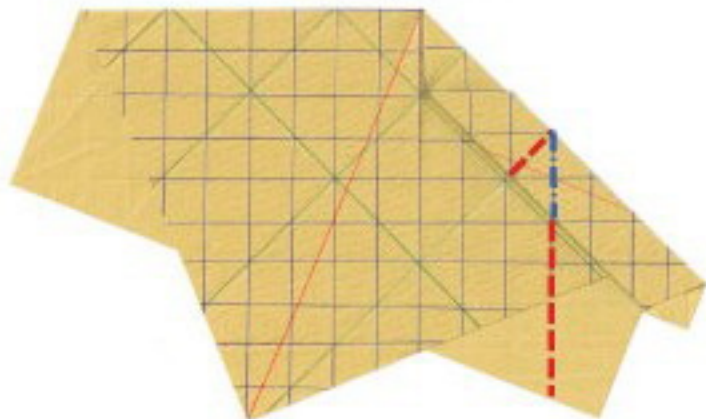
--- Mountain Fold
- - - Valley Fold



35.
Apply the valley-fold of the step
#34.

Prepare for a mountain-fold.

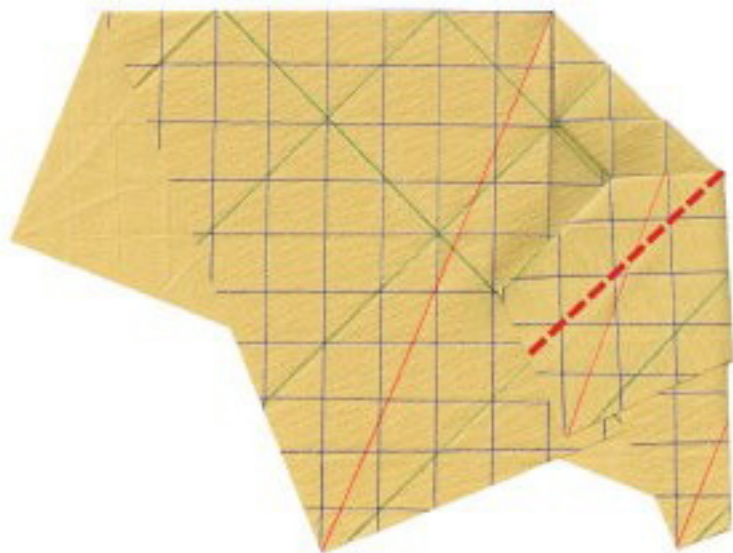
--- Mountain Fold
- - - Valley Fold



36.
Apply the mountain-fold of the
step #35.

Prepare for both valley and
mountain-folds.

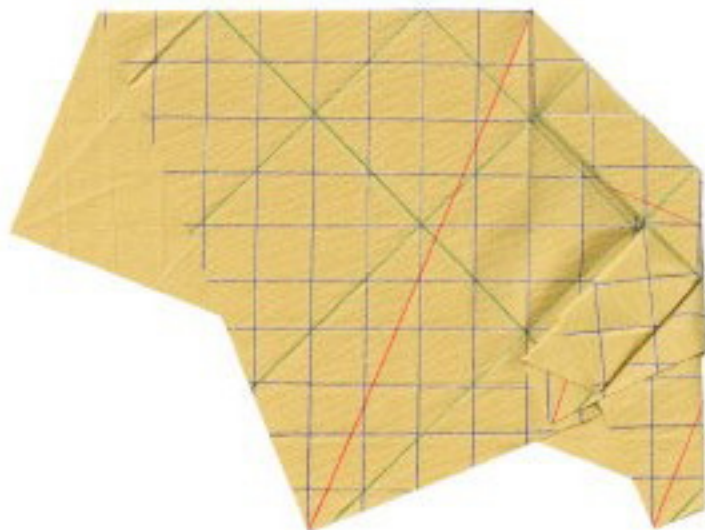
- Mountain Fold
- Valley Fold



37.

Apply both valley and mountain-folds of the step #36.

Prepare for another valley-fold.

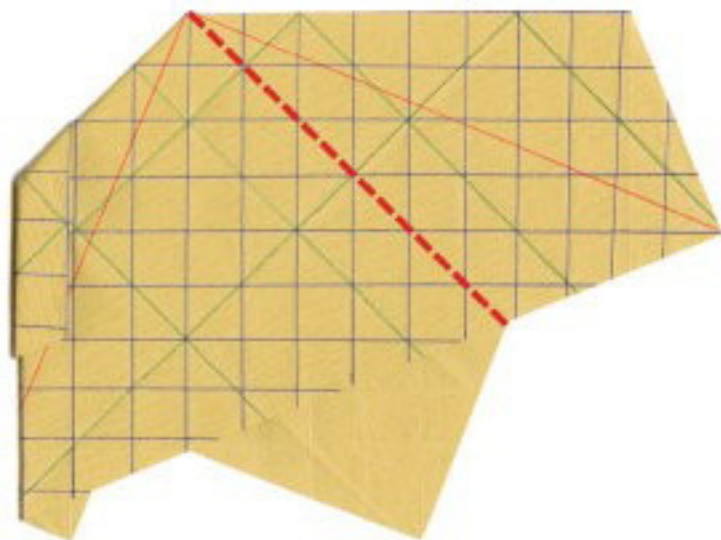


38.

Apply the valley-fold of the step #37.

The folding of the front-side is completed.

--- Mountain Fold
- - - Valley Fold



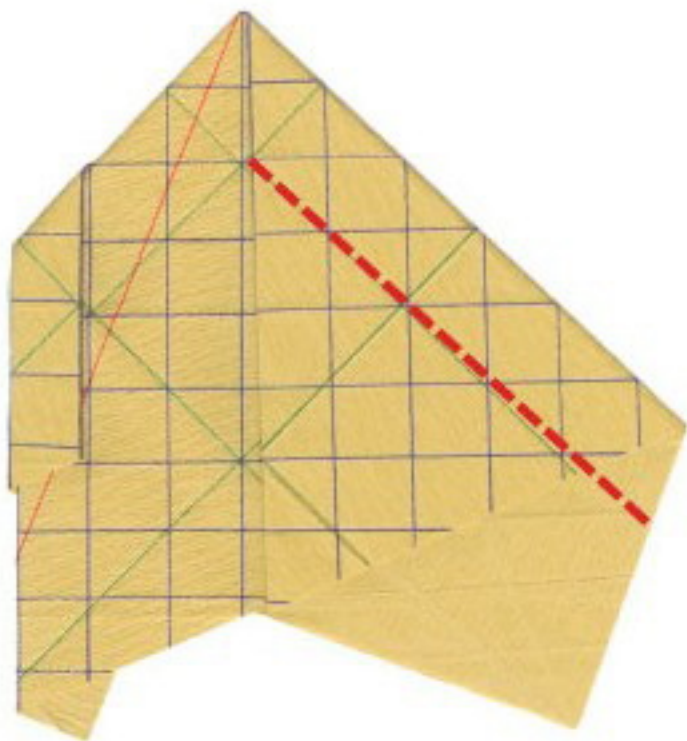
39.

Turn the model over.

We are in the same situation of the step #33.

Prepare for a valley-fold.

--- Mountain Fold
- - - Valley Fold

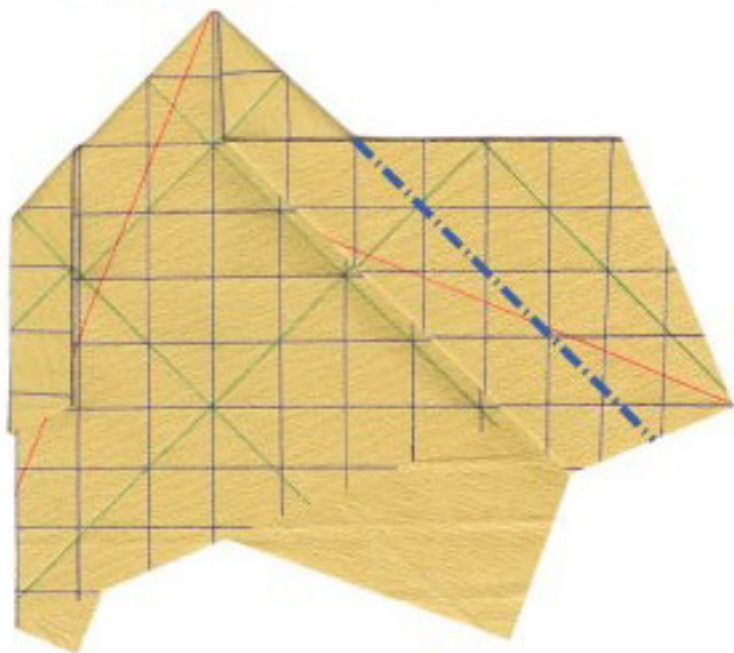


40.

Apply the valley-fold of the step #39.

Prepare for a valley-fold.

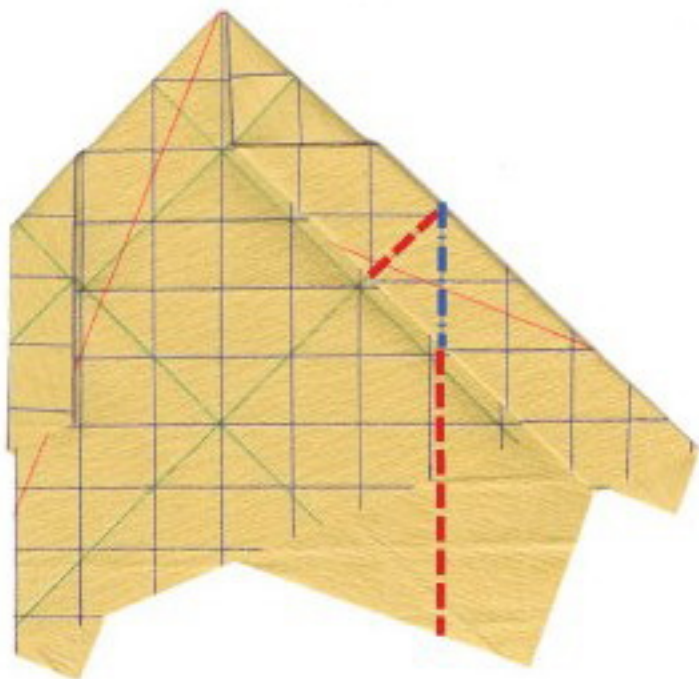
- Mountain Fold
- Valley Fold



41.
Apply the valley-fold of the step
#40.

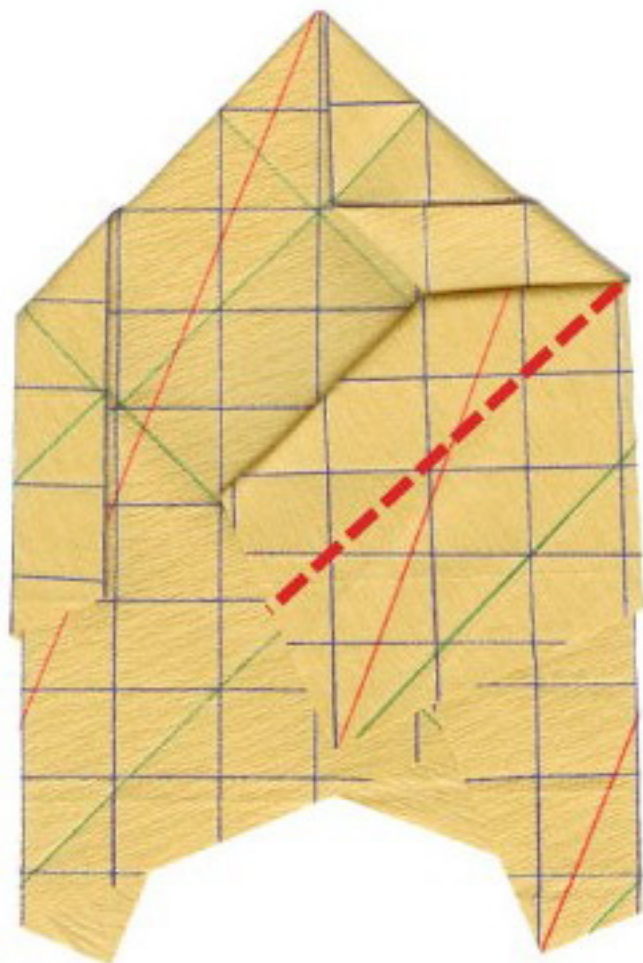
Prepare for a mountain-fold.

- Mountain Fold
- Valley Fold



42.
Apply the mountain-fold of the
step #40.

Prepare for both mountain and
valley-folds.

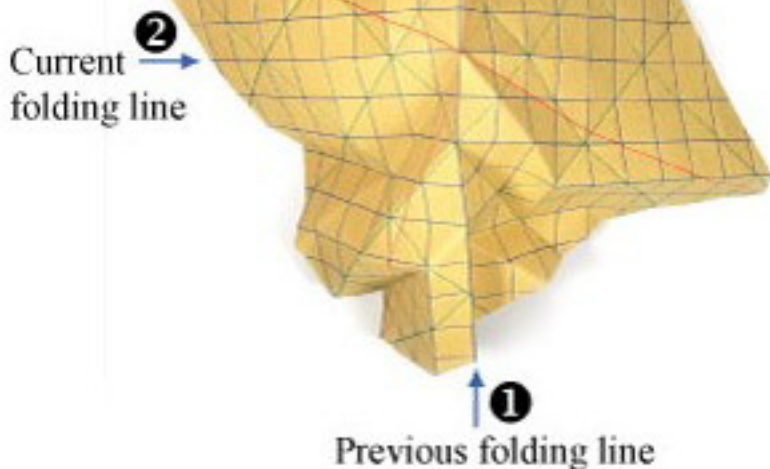


43.
Apply both mountain and
valley-folds of the step #42.

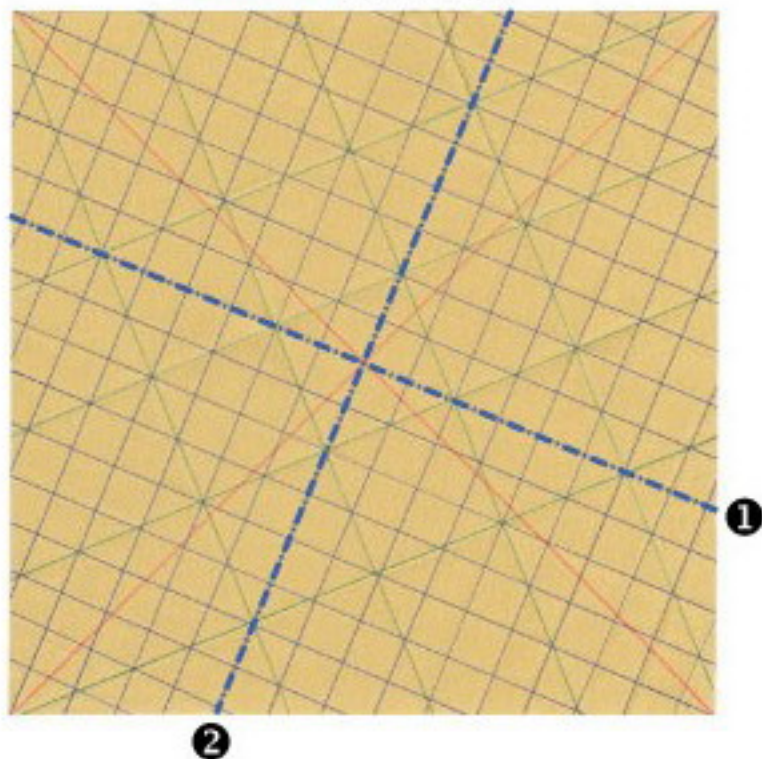
Prepare for a valley-fold.



44.
Apply the valley-fold of the step
#43.



- Mountain Fold
- Valley Fold



45.

Open the paper but not fully. If you remember the step #32, I mentioned that we will be mountain-folding along the line (2) after we are done through steps #33-44.

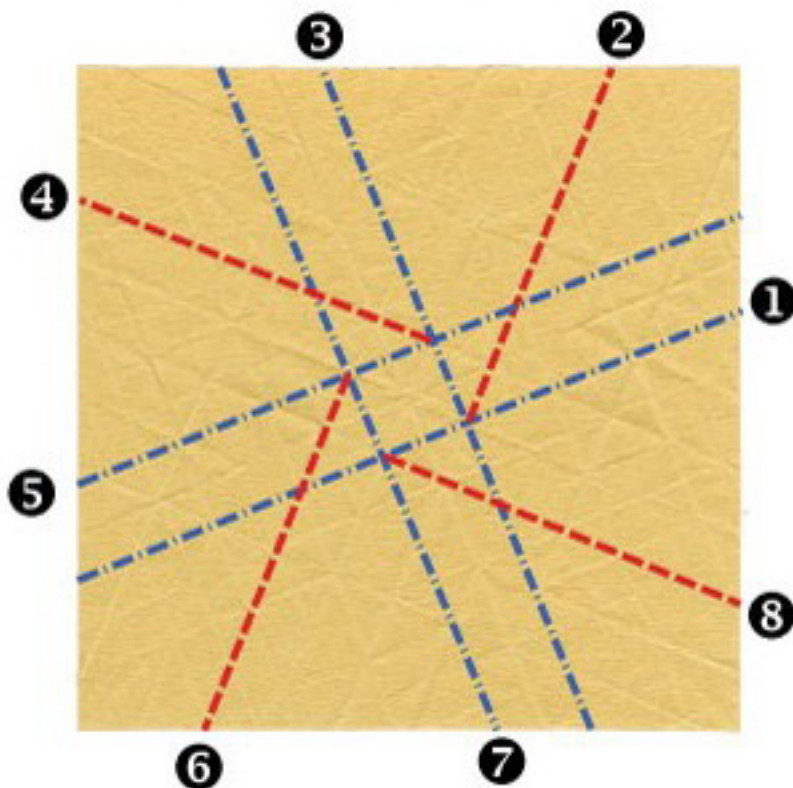
46.

Now it is the time to open the paper fully and mountain-fold along the line (2).

Then repeat everything for the steps #33-44.

You have just completed the "preparation folds" for the new Kawasaki's rose.

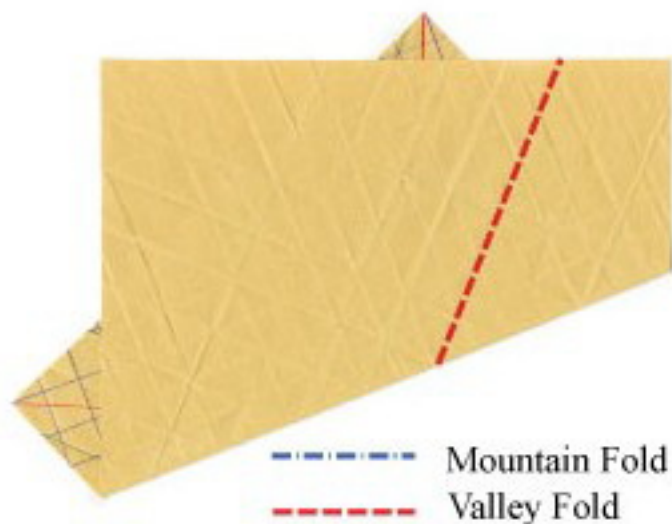
--- Mountain Fold
- - - Valley Fold



47.

Now, we are on the "main-folding" section.

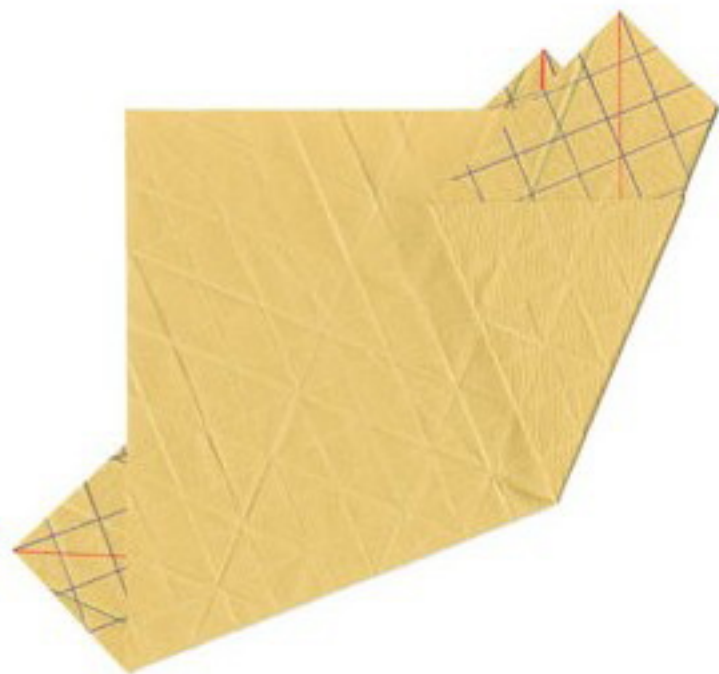
Prepare both mountain and valley-folds.



48.

Apply the mountain-fold of the step #47-(1).

Prepare for a valley-fold of the step #47-(2).

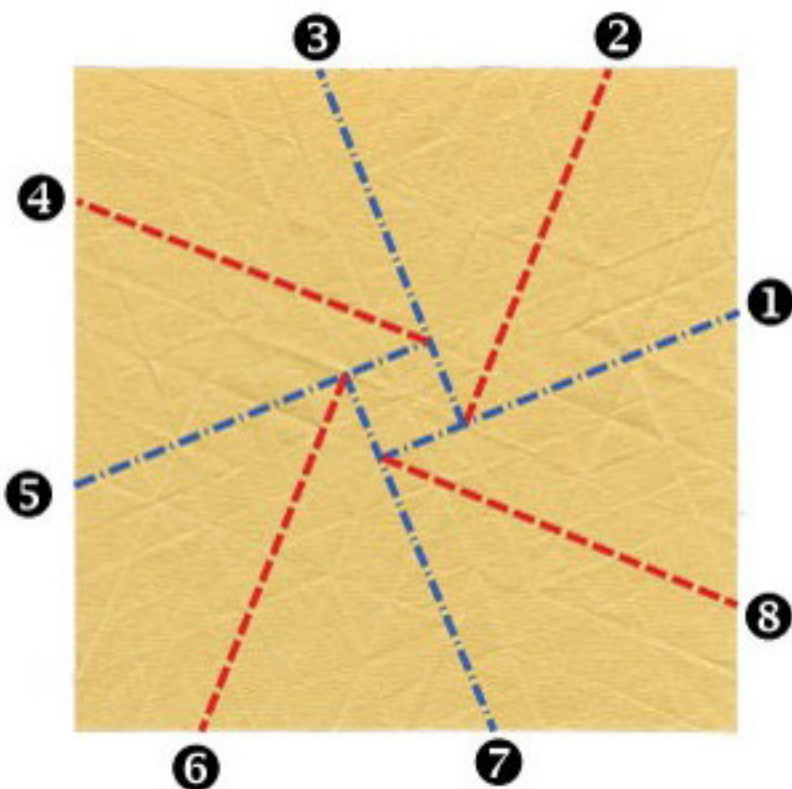


49.

Apply the valley-fold of the step #47-(2).

Open the paper.

--- Mountain Fold
- - - Valley Fold



50.

Repeat the combination of the steps #48-49 three times for the steps #47 (3)-(8).

It is now easy to accommodate the following folding map.



51.

By applying the folding map of the step #50, we get a pyramid-like model.



52.

Gather all the four sides of the rose so that they are grasped in your fist.



53.
Here is how the bottom and the
inside of the rose looks like.



54.
Iron the inside surface with
your finger.



55.
Push one quadrant on the top with
your finger.

Repeat this for all four quadrants.



56.
This will be the top view after the
completion of quadrant push.



57.

Insert four fingers in each hole and gently rotate while grabbing the paper with four fingers.



58.

The top quadrants now swirl around the clockwise direction.

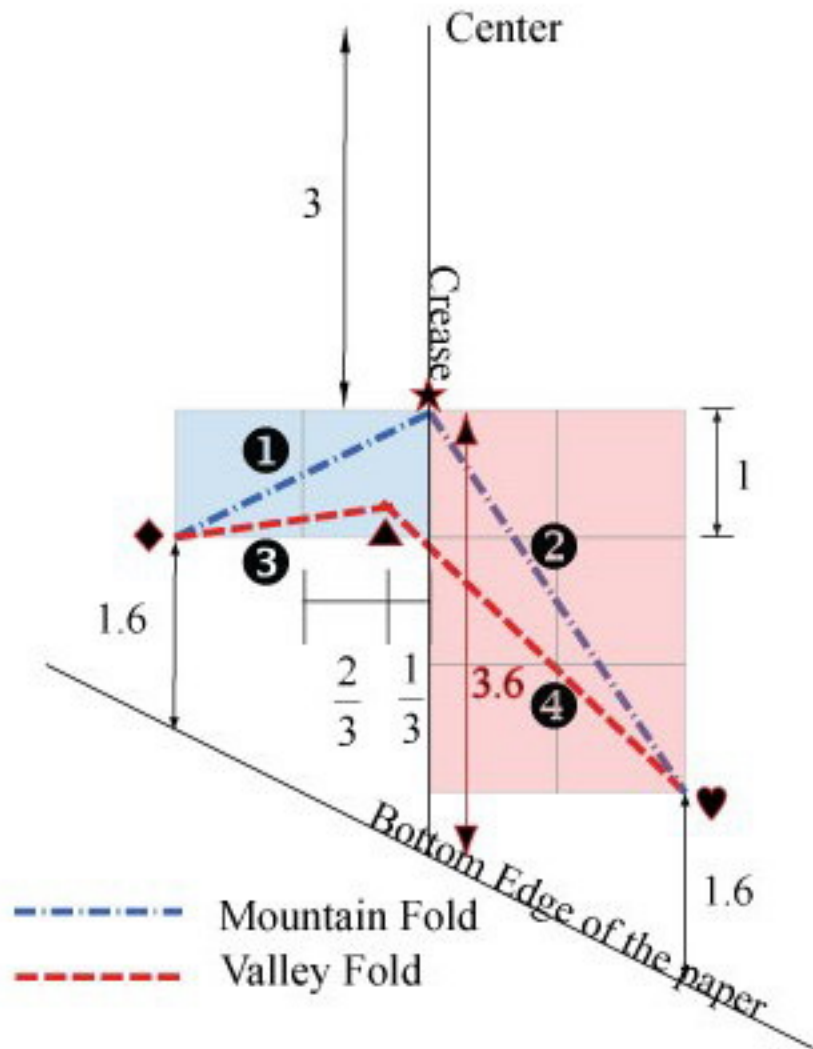


59.
This is the top view.



60.
This is the bottom view.

Notice that I didn't mark the paper with color pens here since I am assuming that you learned the basics from the original "New Kawasaki Rose".

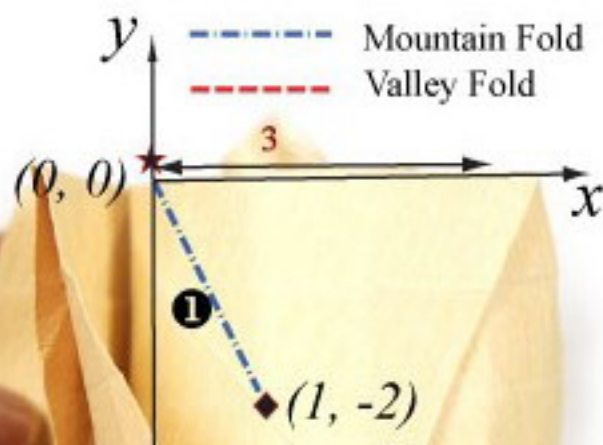


61.

We need to prepare for a "double reverse fold" consisting of two mountain and two valley folds.

Double-reverse fold map is shown in detail on the left.

The order of folding will be:
 (1) star --> diamond
 (2) star --> heart
 (3) diamond --> triangle
 (4) heart --> triangle



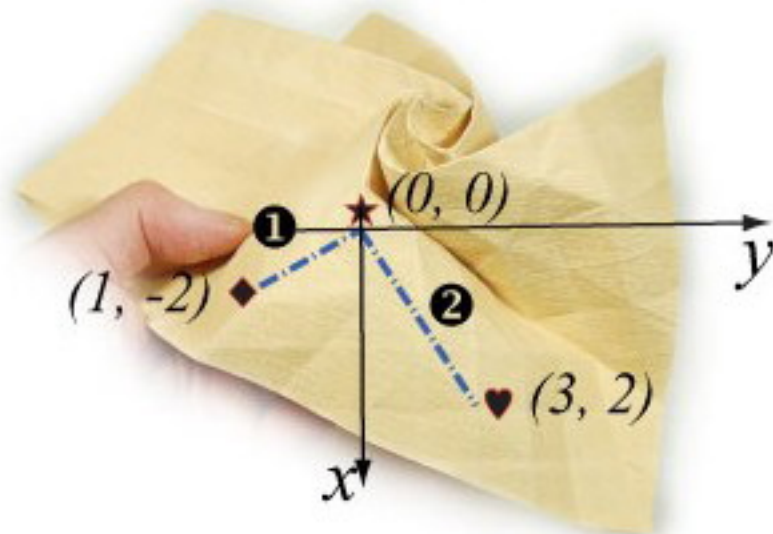
62.

First, you need to find the "star" point which is located about 3.6 units from the edge. If you want to count it from the first grid near the edge, then it will be exactly 3 units.

If we consider this star point as a coordinate origin (0, 0) of xy-system, then the "diamond" point will be at (1, -2).

Prepare for a mountain-fold along the blue line starting from the star and ending at the diamond.

- Mountain Fold
- Valley Fold



63.

The next thing is to find the "heart" point which is located at $(3, 2)$.

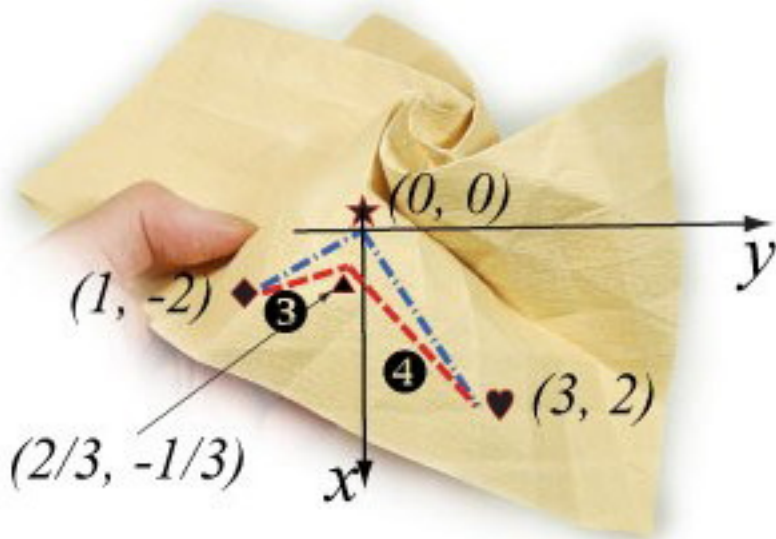
Thus, by finding (a) star point, (b) diamond point, and (c) heart point, we can easily apply two mountain-folds along the path.



64.

Apply two mountain-folds shown in the steps #62-63.

- - - - - Mountain Fold
- - - - - Valley Fold



65.

Now, we need to find the "triangle" point which is located about $(2/3, -1/3)$.

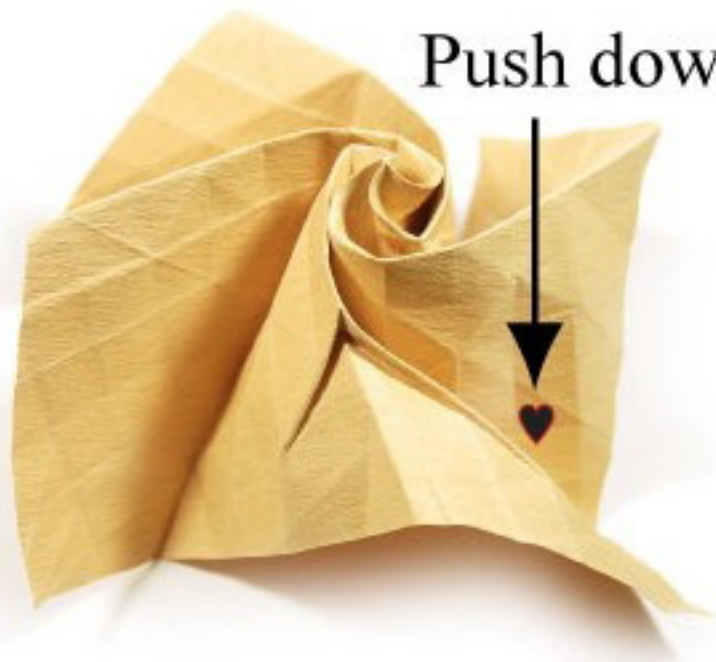
Prepare for two valley-folds starting from the diamond point to the triangle point and then to the heart point.



66.

Apply two valley-folds according to the step #69.

Push down



67.

Prepare for a pushing of the "heart" point down.



68.

Apply the push.



69.

Apply the steps #61-68 to all four sides.



70.

Gather all the four sides of the rose so that they are grasped in your fist.



71.

**Let's concentrate on the
bottom-half.**

**Prepare for a valley-fold along a
crease.**



72.

**Apply the valley-fold of the step
#72.**

**Turn the rose by 90 degrees
clockwise direction to work on
next leg.**



73.
Apply the steps #71-72 to all
four sides.



74.
This is the top view of the
rose.



75.

This is the side view of the rose.

Prepare for a reverse fold at the edge of a petal.



76.

Apply the reverse fold so that the petal is attached to the main body.



77.

The reverse fold is completed



78.

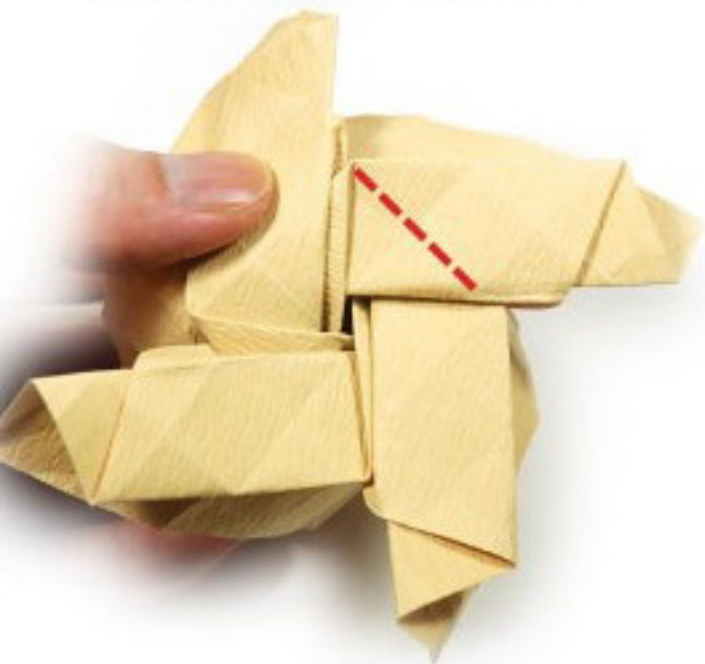
Apply the reverse fold of the steps #75-77 to all four petals.

This is the top view after the completion of the reverse folds for all four petals.

It is good to compare this picture with the one before the reverse folds (step #74).

----- Mountain Fold

----- Valley Fold



79.

Turn the rose over so that you can see the bottom.

Prepare for a valley-fold



80.

Apply the valley-fold of the step #79 using your right thumb and index fingers.

Then press it with left thumb.



81.
Slowly flip the surround paper
over with right thumb and
index fingers.



82.
Smooth out the surface.
The steps #79-82 is called a
"locking fold".



83.

Repeat the steps #79-82 to all
four legs.

The bottom is completely
closed.



84.

Turn the rose over.

This is the top view of the
rose.

The structure of the rose is
now completed.



85.

At step #58 we haven't finished making swirl effect at the top.

Now, we would like to complete it here.

Grasp the top with scissor tweezers and rotate slowly and firmly until the top closed by itself.



86

This is the top view of the rose after the step #85.



87.
Curl each petal with your
fingers.



88.
You can also curl petal with
tweezers.



89.
New swirl Kawasaki's rose is
now completed.



90.
This is the bottom view of the
rose.



91.

Congratulation! You have just completed making "new swirl Kawasaki rose".

If you have [any question](#) or insight about new swirl Kawasaki's rose, you can contact me through an email at hyoahn@gmail.com. Please also send me an email if you find any bugs.

Click [Here](#) if you want to go to the first page of this instruction.