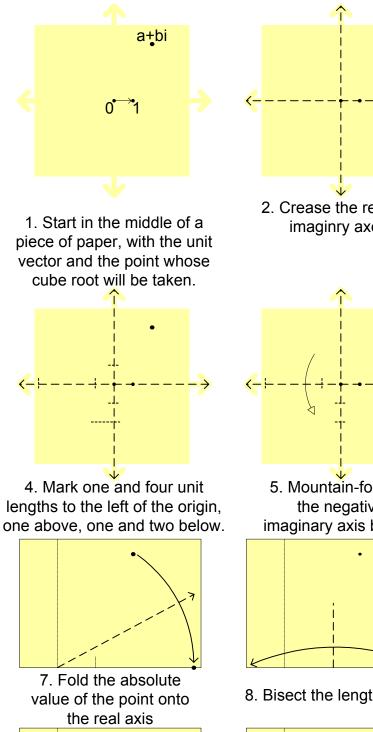
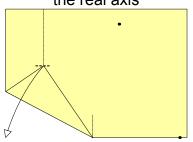
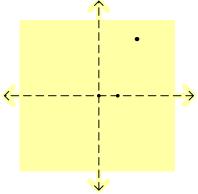
Folding the cube root of a complex number

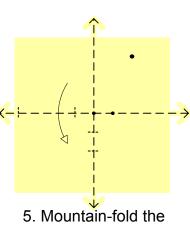




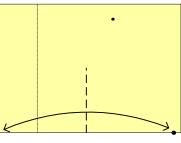
10. Crease a mark along the imaginary axis and unfold.



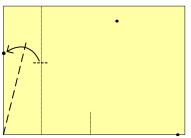
2. Crease the real and imaginry axes.



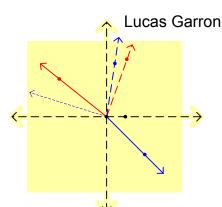
the negative imaginary axis behind



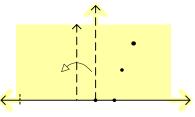
8. Bisect the length to -1



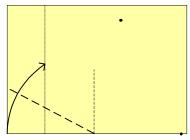
11. Fold the mark to the left of the paper.



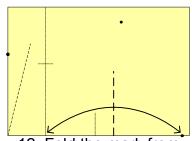
3. If the point is in the second quadrant, halve its argument. If it is below the x-axis, halve its argument twice. This will be undone later



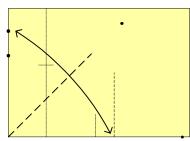
6. Mountain-fold behind vertically at the negative unit mark



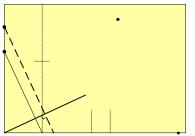
9. Fold the left bottom corner onto the imaginary axis through the last mark.



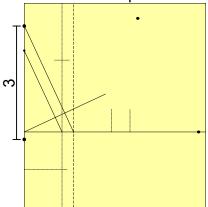
12. Fold the mark from step 8 to the origin, crease, and unfold



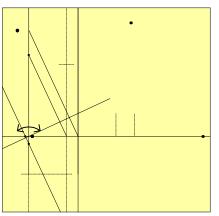
13. Transfer the mark to the left of the paper



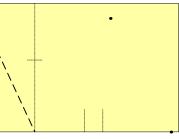
16. Fold a perpendicular to that, going through the mark from step 13.



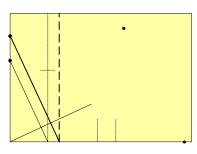
19. Lower the step 13 mark by3 units. (This will not always be near the real axis)



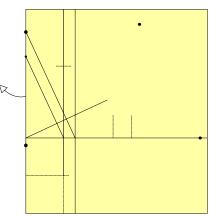
22. Fold the Re(x)=-1 line to transfer the mark.



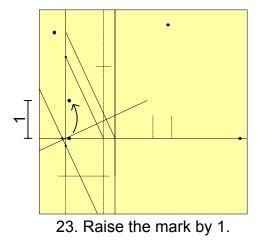
14. Crease from step 11's mark through the origin.



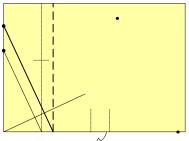
17. Make a vertical crease where it meets the bottom edge.



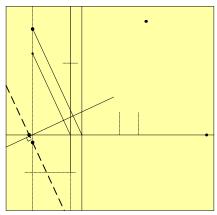
20. Pull out more paper, if necessary for the next step



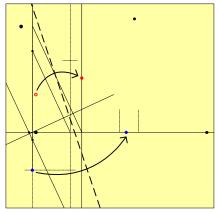
15. Fold a perpendicular through the new segment to the bottom left corner.



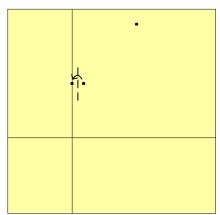
18. Pull out two unit strips of paper from below.



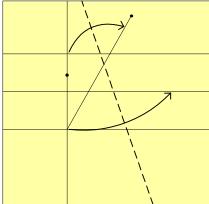
21. Fold another perpendicular.



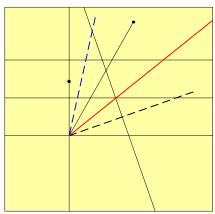
24. Fold the point to the line from step 17, and -1-i to the real axis.



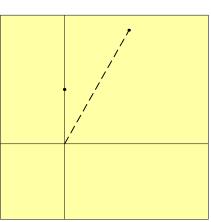
25. Fold the point to the imaginary axis.



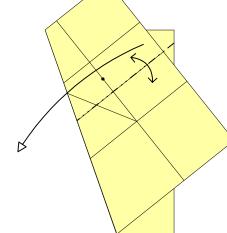
28. Fold the intersection of the higher line and the imaginary axis to the segment from the origin, and fold -i to the real axis.

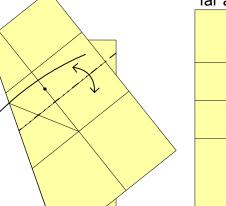


31. Recall step 3. If the angle was halved twice, double this angle; if once, leave it; if kept, halve it.

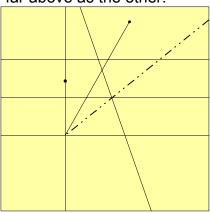


26. Crease from the origin to the point

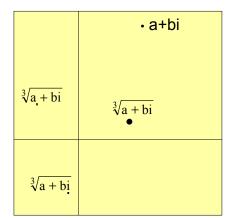




27. Fold two horizontal lines above the real axis, on twice as far above as the other.

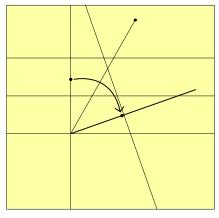


30. Extend the crease to the origin



33. We have a cube root of the original number. The other two are 120° and 240° around the origin.

29. Crease through all layers and unfold.



32. Transfer the length from the origin to the point in step 25 to the line.