

Edge unfolding vs. general unfolding

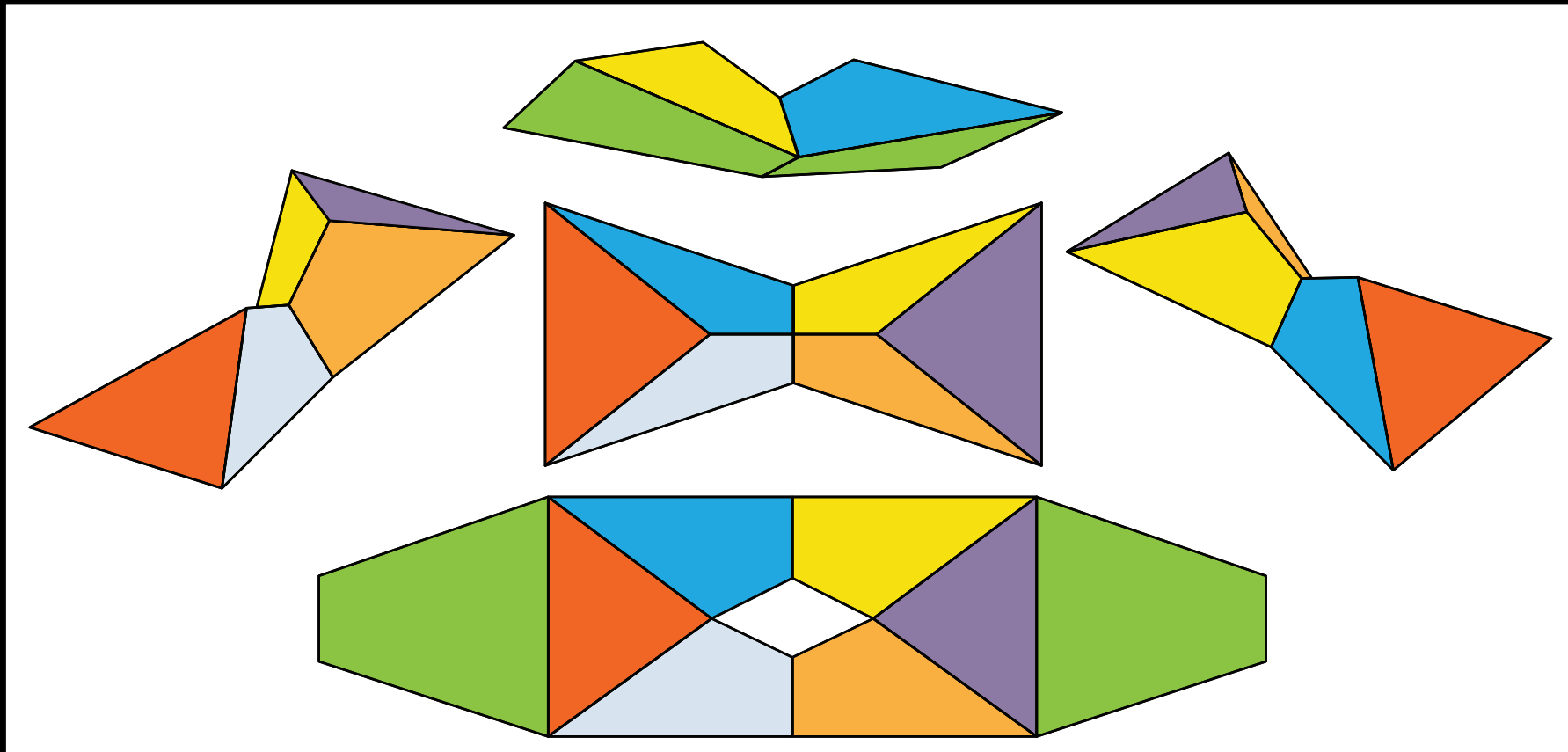
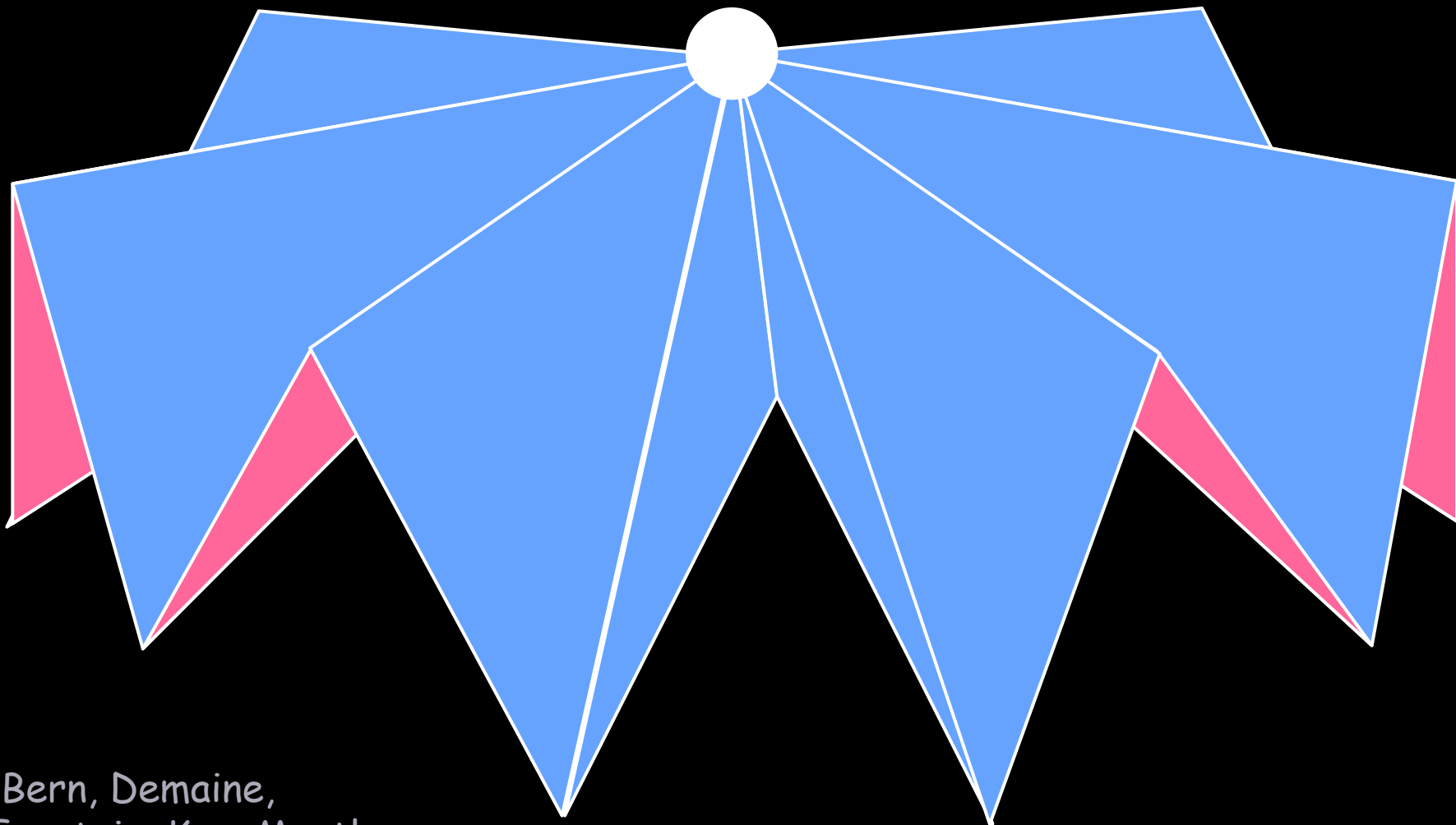


Image by MIT OpenCourseWare.
See also: <http://erikdemaine.org/papers/Ununfoldable/>.

[Bern, Demaine,
Eppstein, Kuo, Mantler,
Snoeyink 2003]



[Bern, Demaine,
Eppstein, Kuo, Mantler,
Snoeyink 2003]

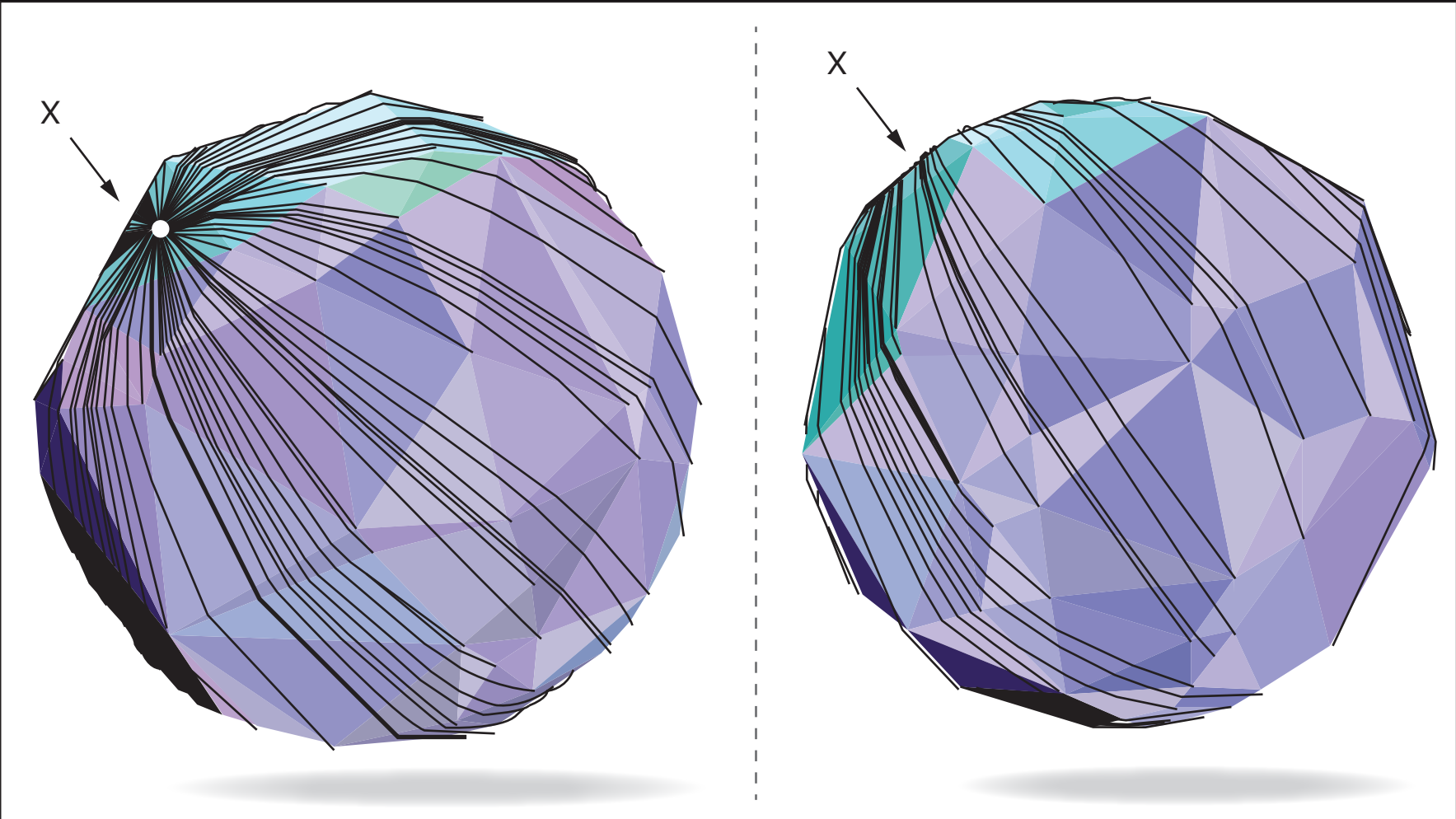


Image by MIT OpenCourseWare.

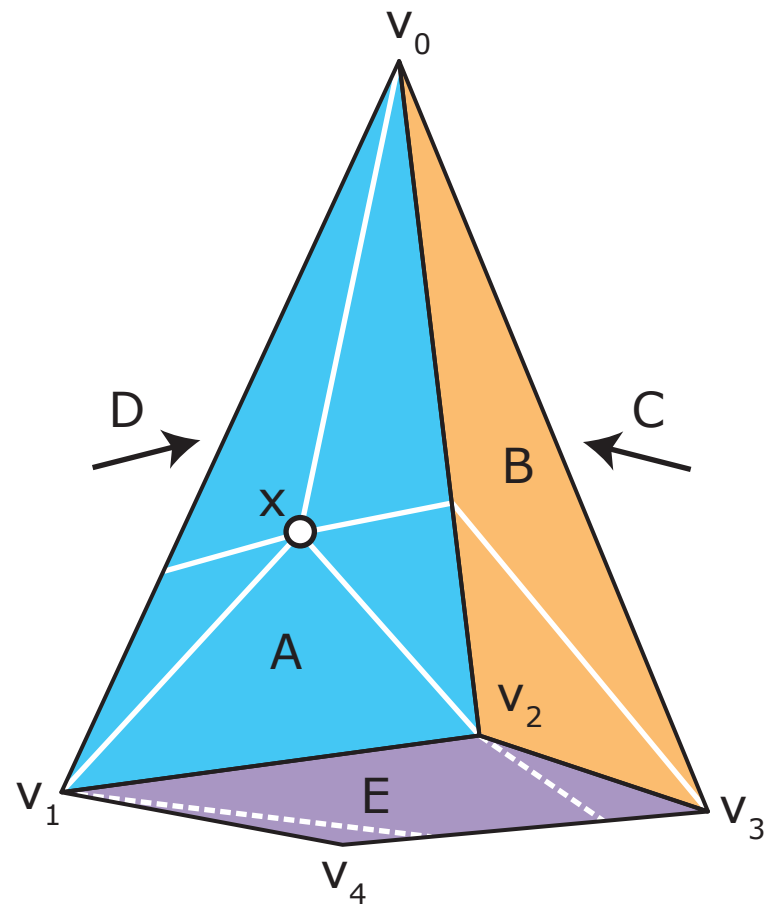
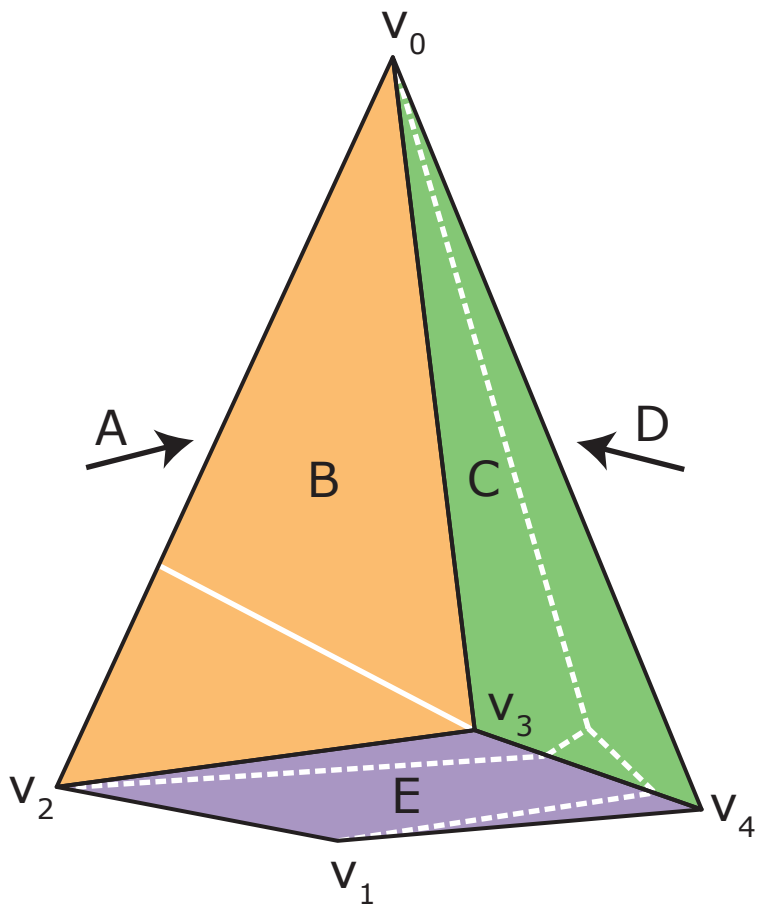
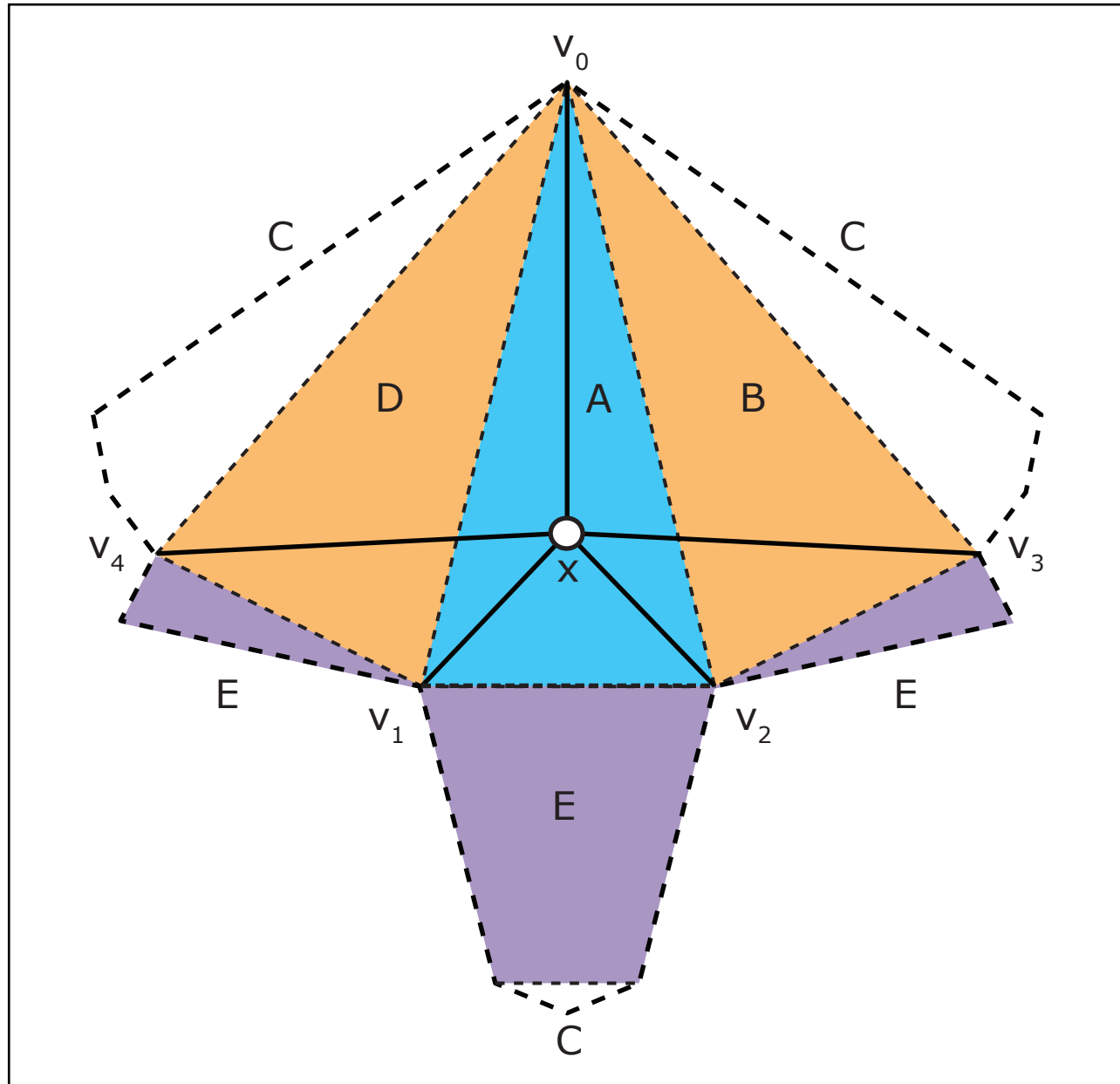
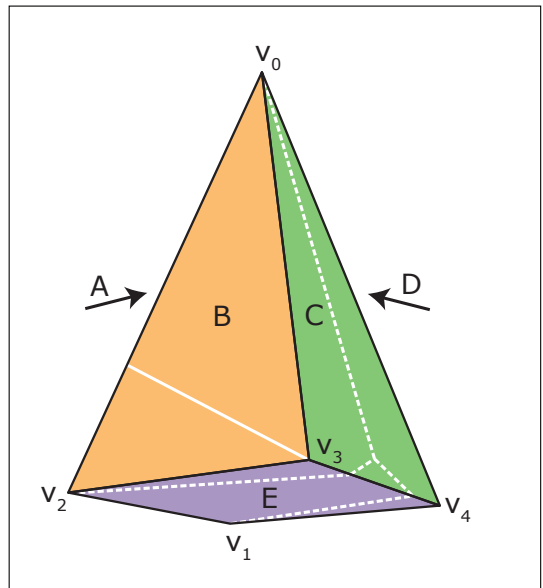
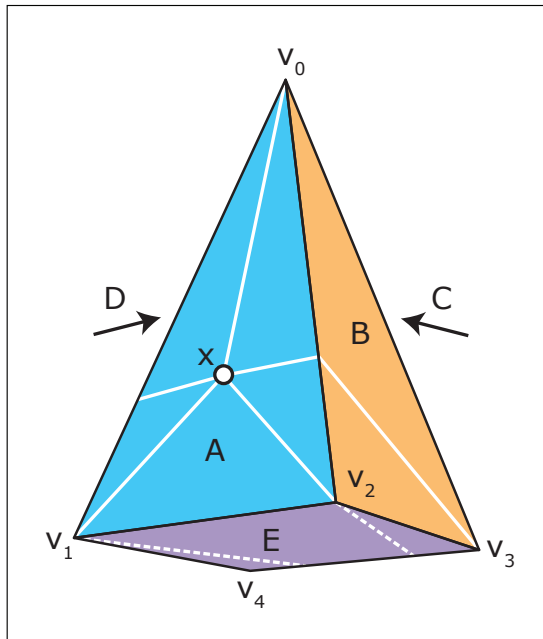
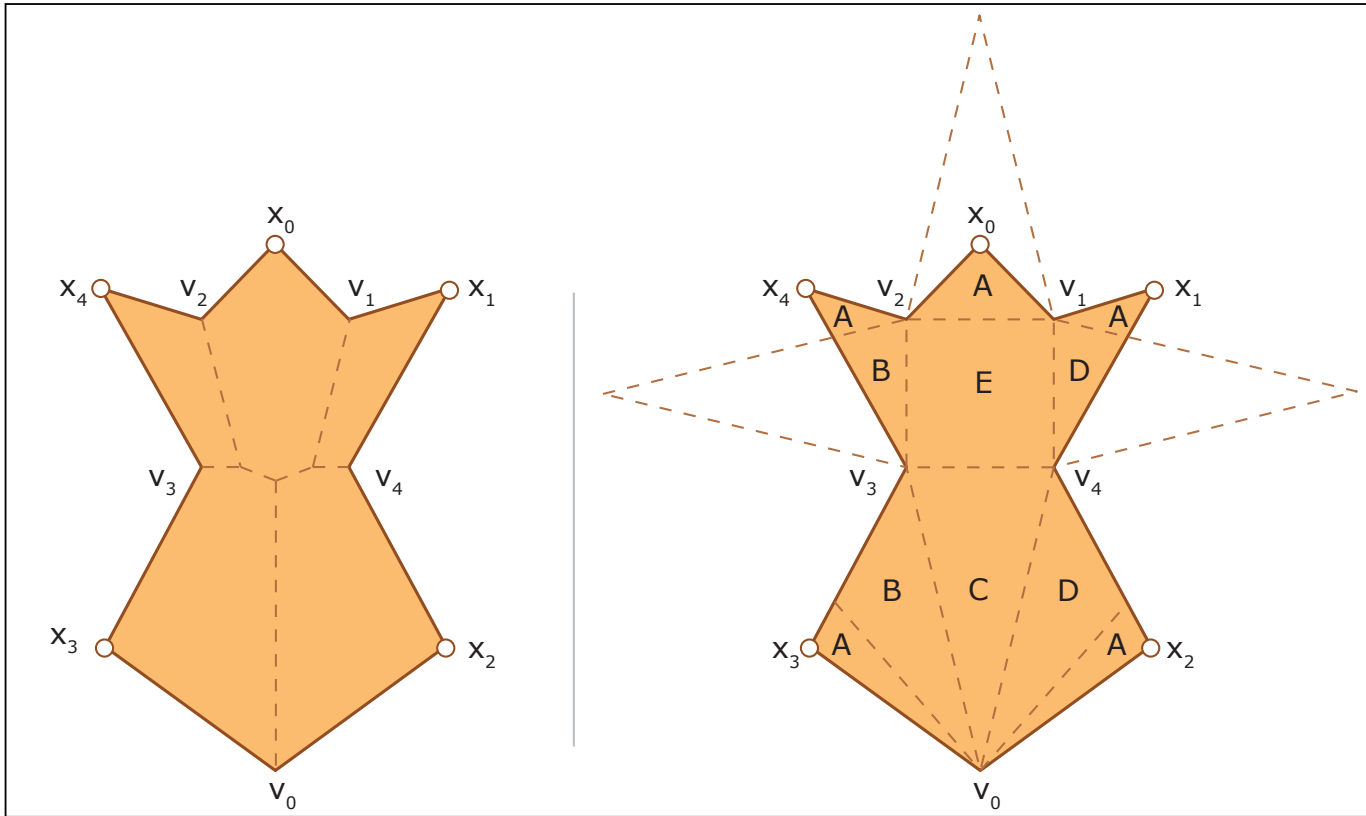
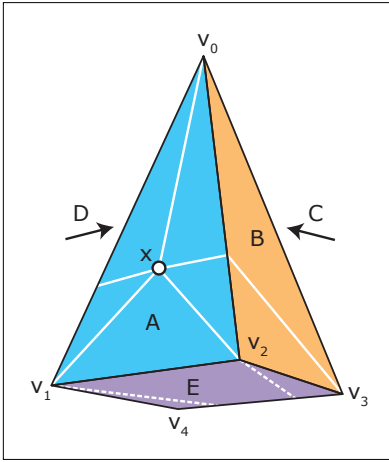
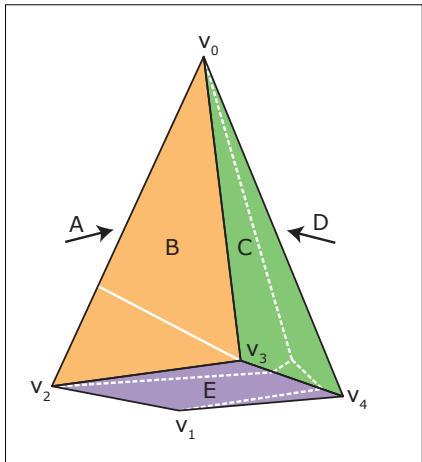


Image by MIT OpenCourseWare.

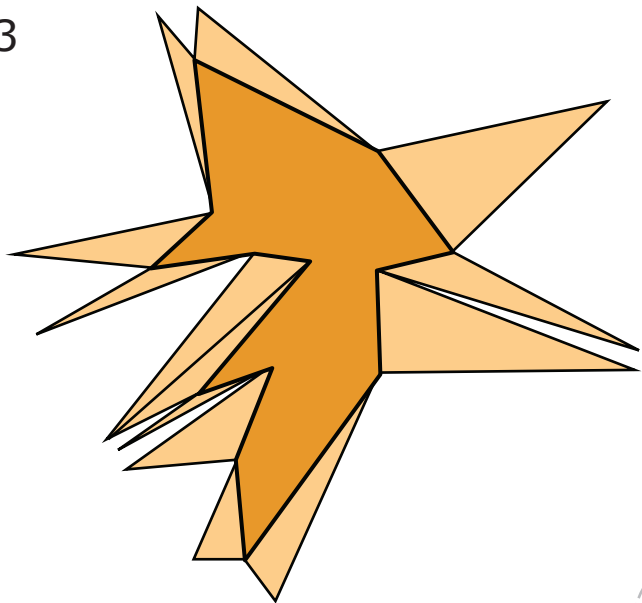


Images by MIT OpenCourseWare.

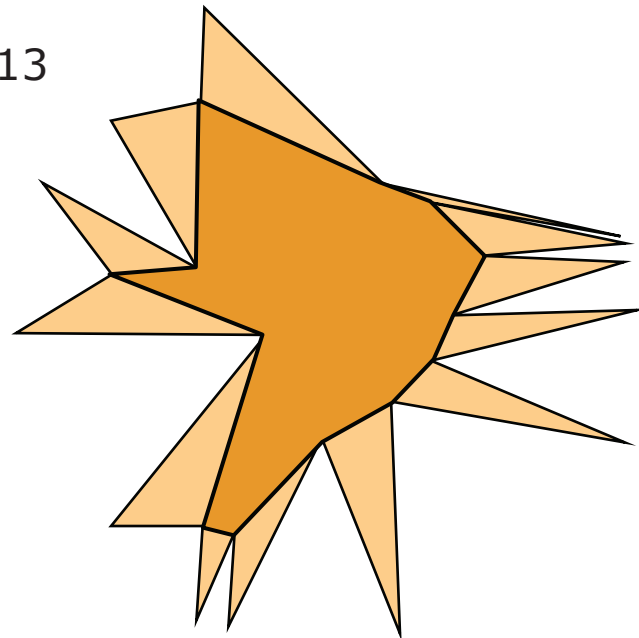


Images by MIT OpenCourseWare.

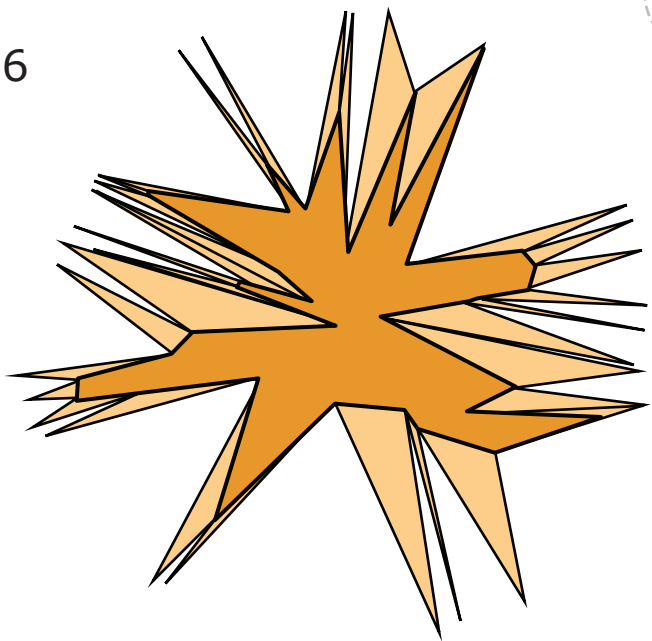
13



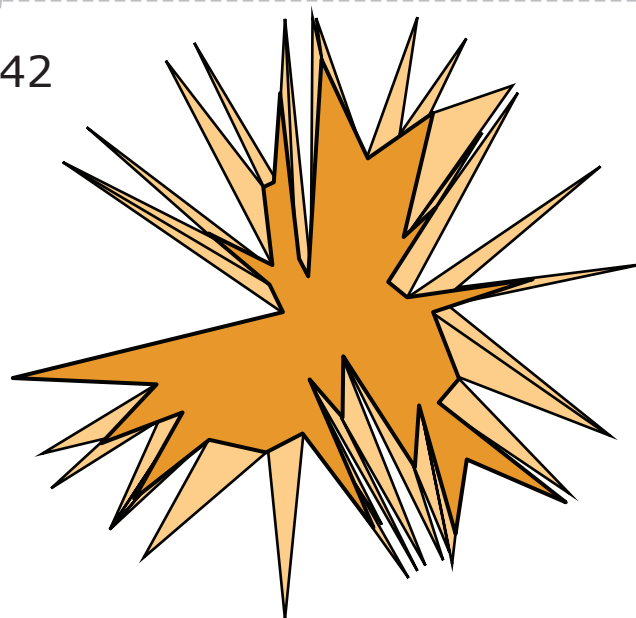
13



36



42



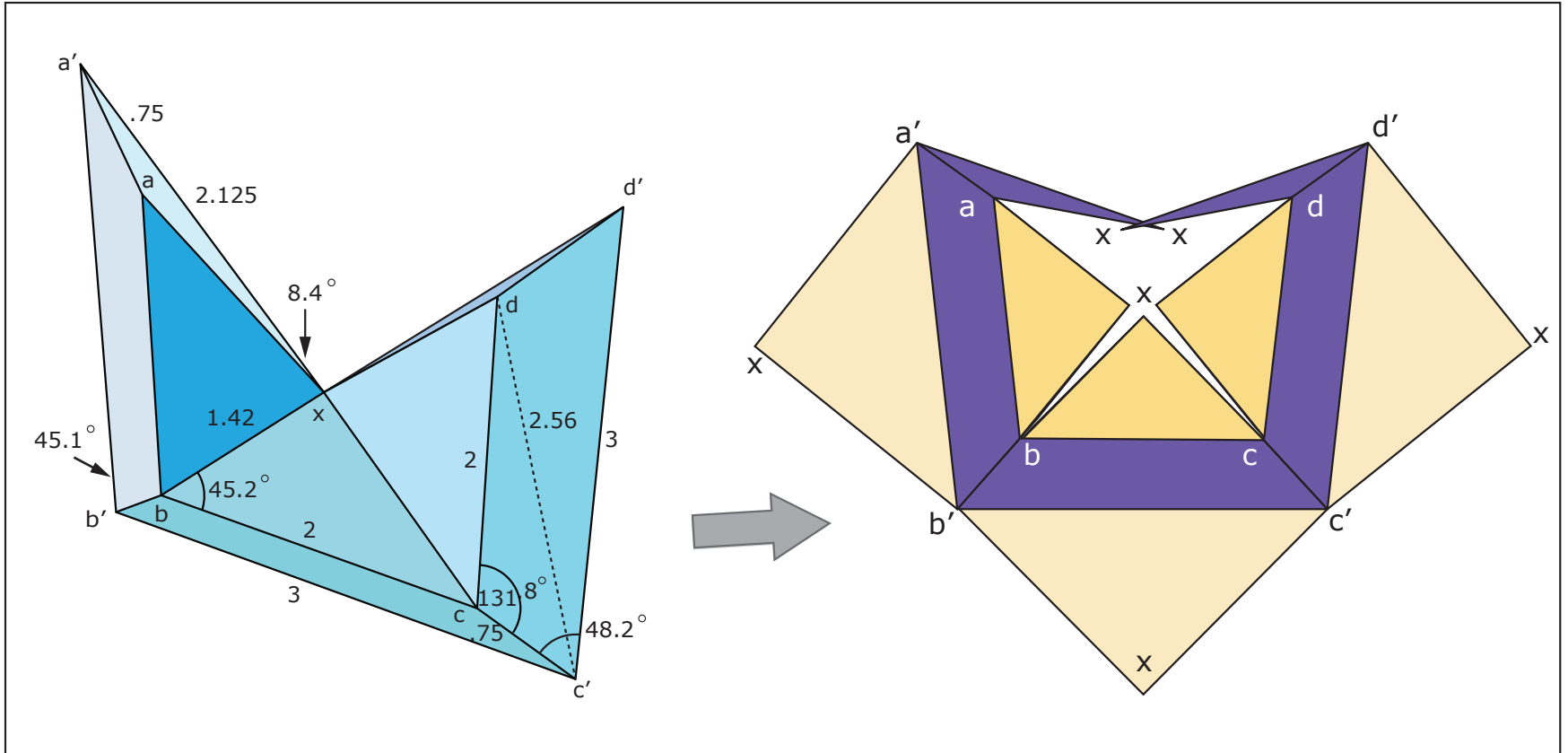
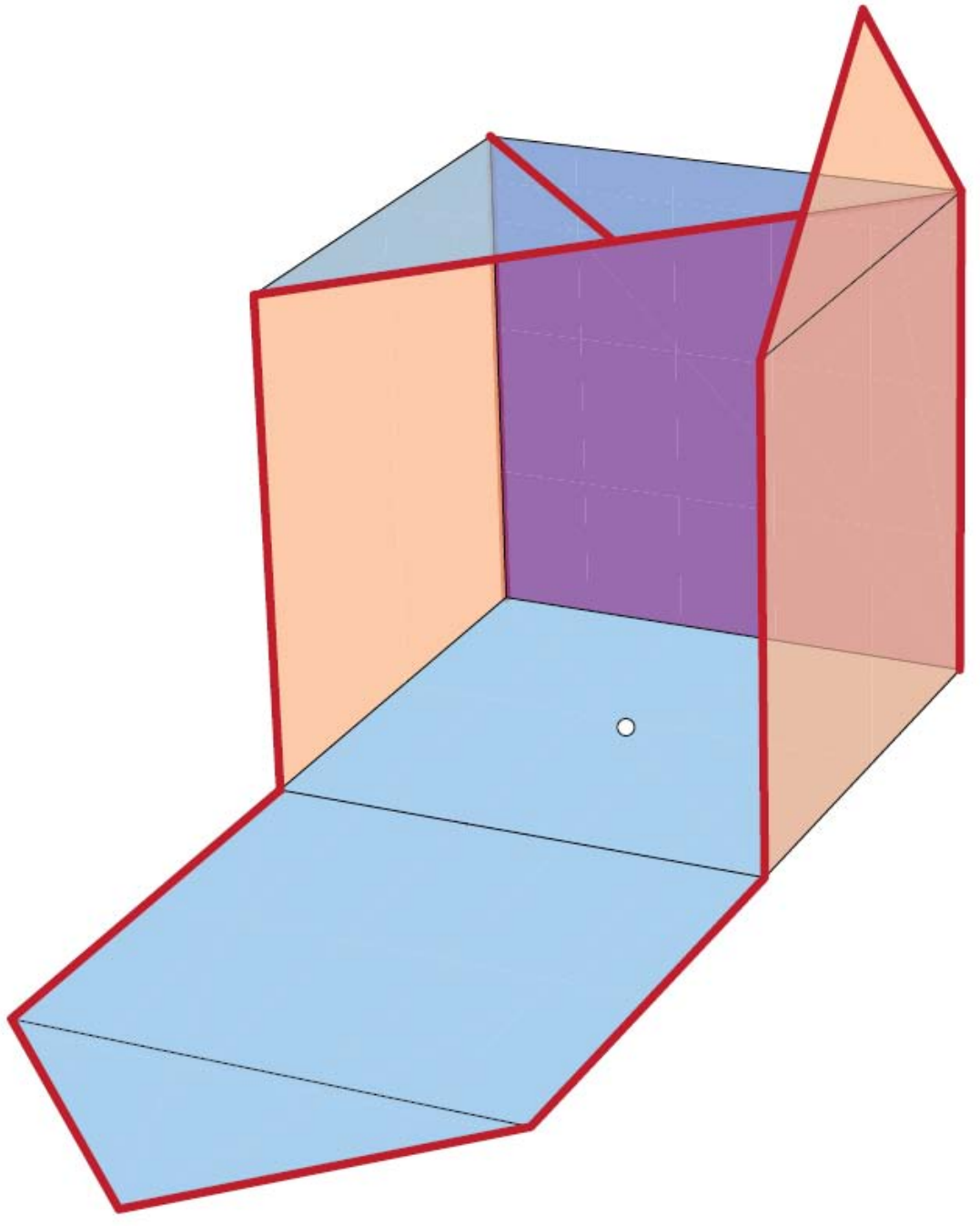


Image by MIT OpenCourseWare.



[Demaine,
Demaine, Hart,
Iacono,
Langerman,
O'Rourke 2010]

Courtesy of Erik D. Demaine, Martin L. Demaine, Vi Hart, John Iacono, Stefan Langerman, and Joseph O'Rourke. Used with permission.



Albrecht Dürer (self-portrait)

Melancholia I [1525]

Dürer's self-portrait and Melancholia I are in the public domain.



Snderweysung der messung/ mit dem zirckel vñ richt
scheyt/ in Linien ebenen vñnd gangen corporen/
durch Albrecht Dürer zu samen gezogen/
vñd zu nutz alle kunstlieb habenden
mit zu gehörigen figuren/ in
druck gebracht/ im jar.
M. D. XXXV.

"The Painter's Manual: A Manual of Measurement of Lines, Areas, and Solids by Means of Compass and Ruler Assembled by Albrecht Dürer for the Use of All Lovers of Art with Appropriate Illustrations Arranged to be Printed in the Year MDXXV (1525)

Mit begnadung Kayserlicher im end eyngeliebter Freys
heyt damit sich ein yglicher vor scha
den zu hüten wyß zc.

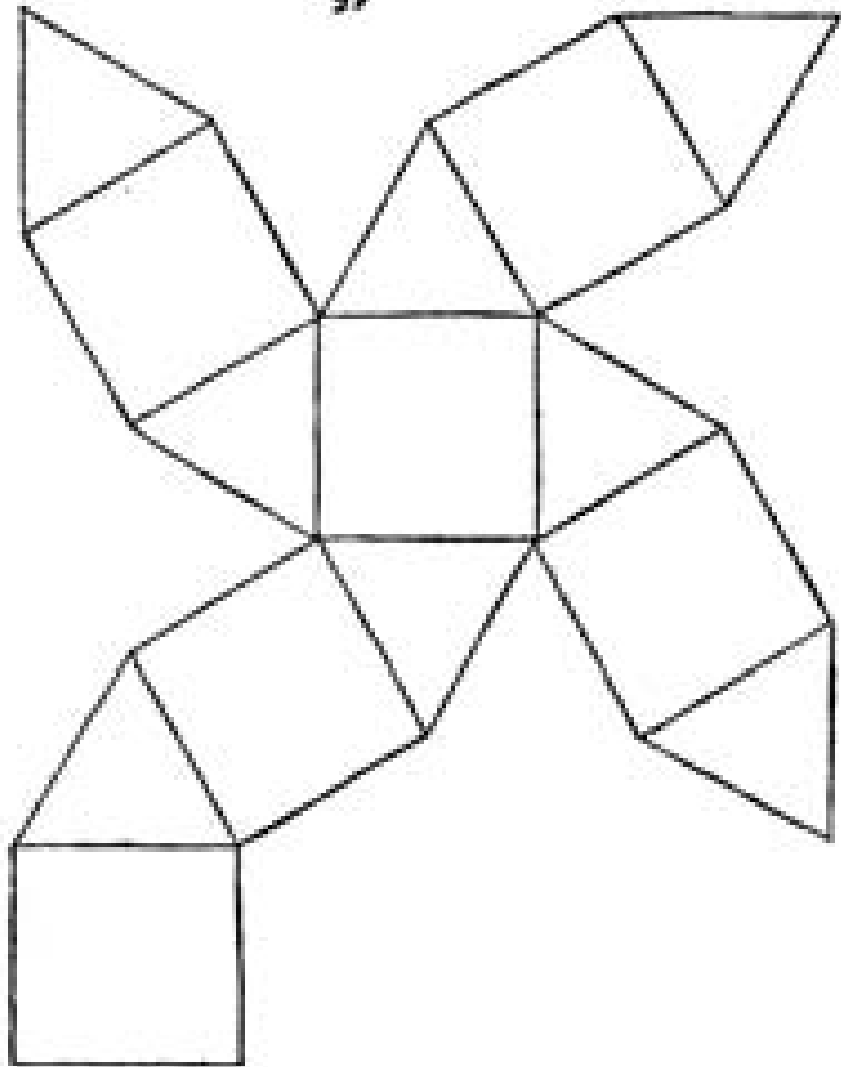


Image of cuboctahedron removed due to copyright restrictions.

[Dürer 1525]



D Hier ein corpus hat offen acht sechs eckiger / und sechs vier eckiger felder so man die zufas
 men leget so gewint das corpus vier vil zweyueckig eck / und sechs und dreyßig scharpfer seiten.
 ¶ ij

Das Sechst corpus/so das aufthan wirt/hat es sechs gefierte/vnd zwey vnd dreyßig Dyangli
che felder/so man das zusamen leget.gewint es vier vnd zweynßig eck/vnnd sechßig scharp
pfer seiten.

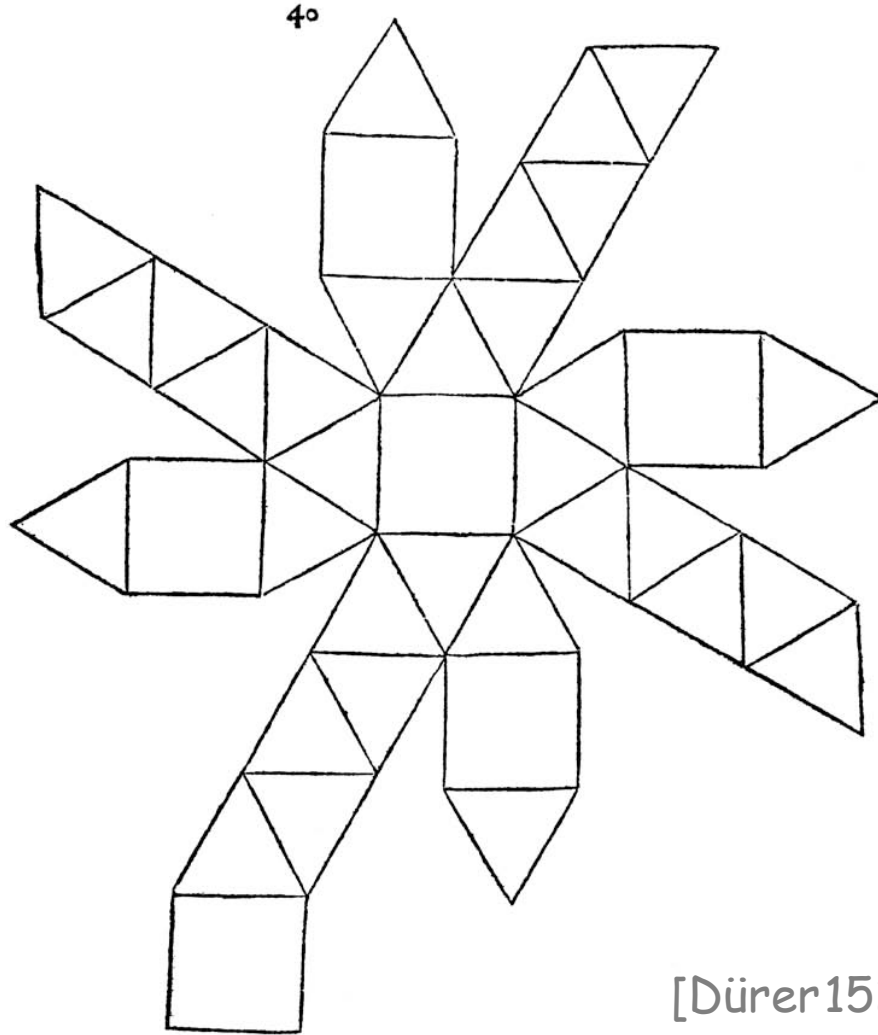


Image of **Snub cube** removed due to copyright restrictions.

Das Sibent vnd nach folget corpus/so es offen leyt/hat es sechs achte ecketter/vñ achte sechs eck
ter/vnd zwelf vier ecketter felder/vñ so man das zusamen leget/so gewint es achte vnd vierßig
eck/vnd zwo vnd sibensßig scharpfer seiten.

Images of [polyhedra animations](#) and respective unfoldings removed due to copyright restrictions.

Image removed due to copyright restrictions.

Refer to: Fig. 40c from Schlickerrieder, W. "Nets of Polyhedra."
Technische Universität Berlin, Masters's Thesis, 1997.

Image removed due to copyright restrictions.

Refer to: Fig. 35 from Schlickerieder, W. "Nets of Polyhedra."
Technische Universität Berlin, Masters's Thesis, 1997.

Image removed due to copyright restrictions.

Refer to: Fig. 38, 42b from Schlickerrieder, W. "Nets of Polyhedra."
Technische Universität Berlin, Masters's Thesis, 1997.

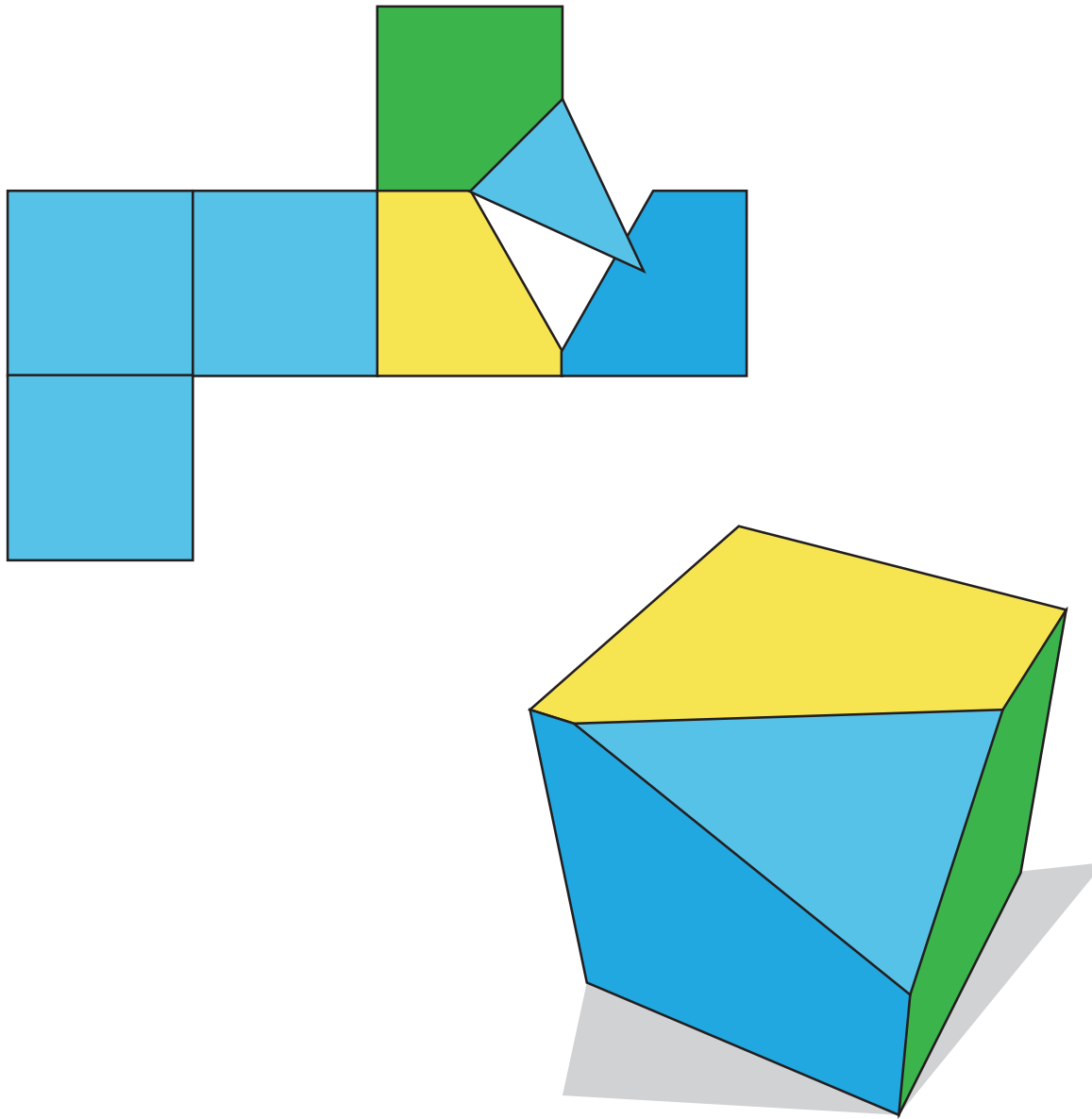


Image by MIT OpenCourseWare.

[Namiki & Fukuda 1993]

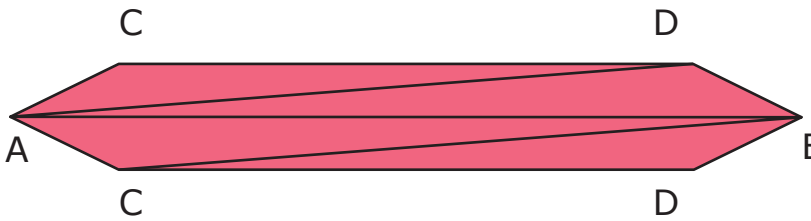
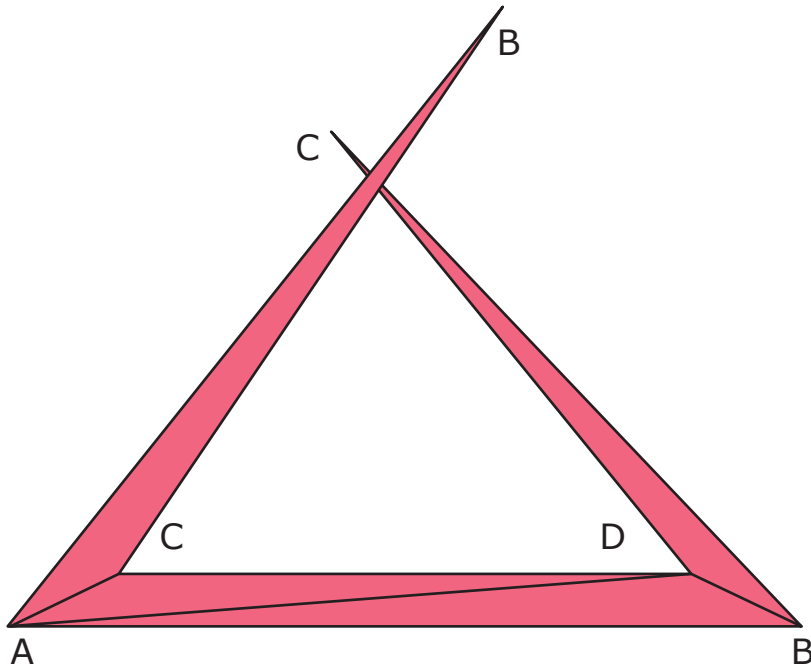
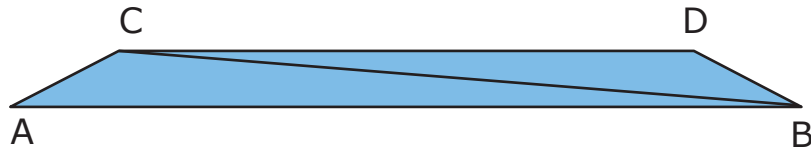
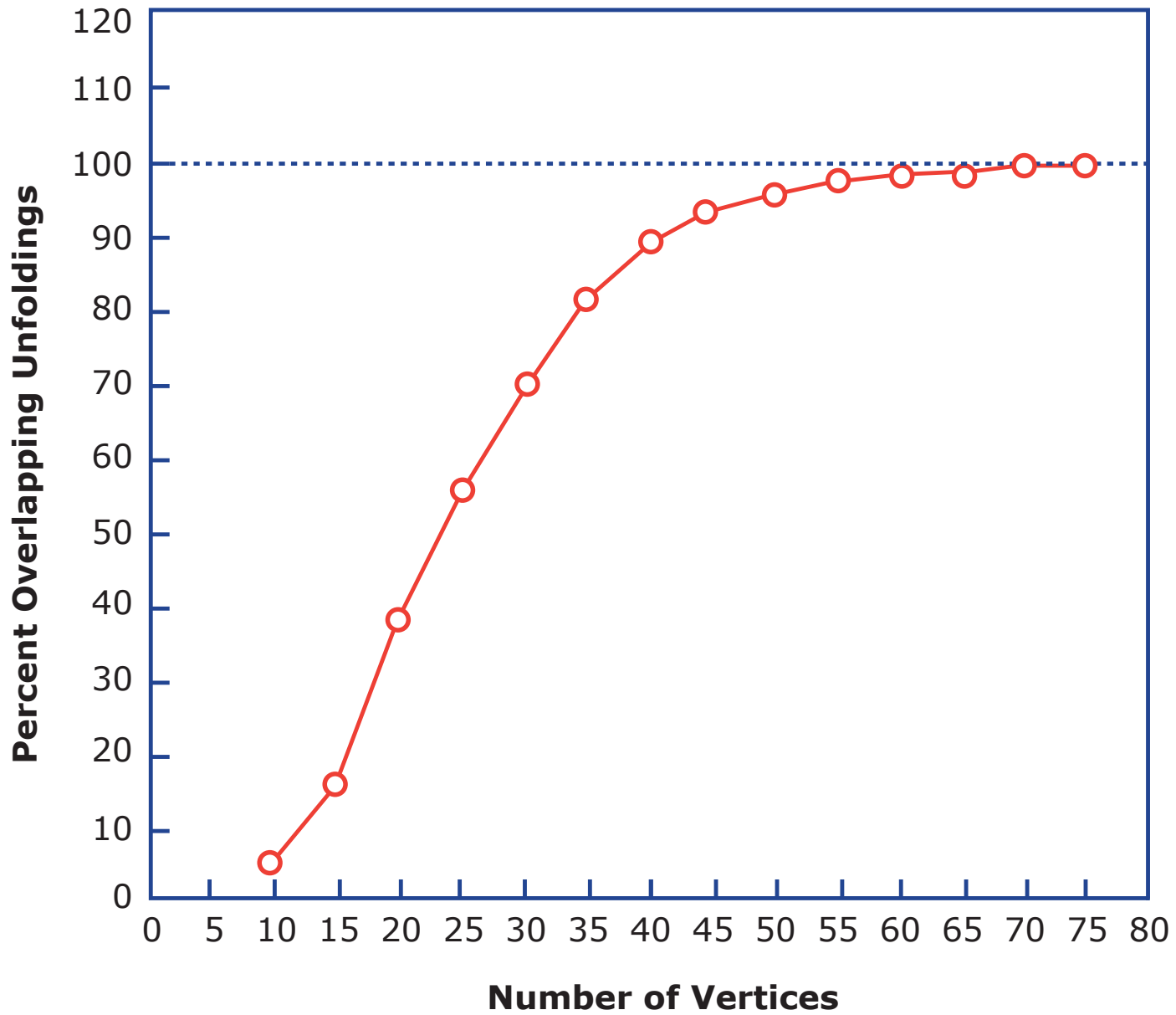
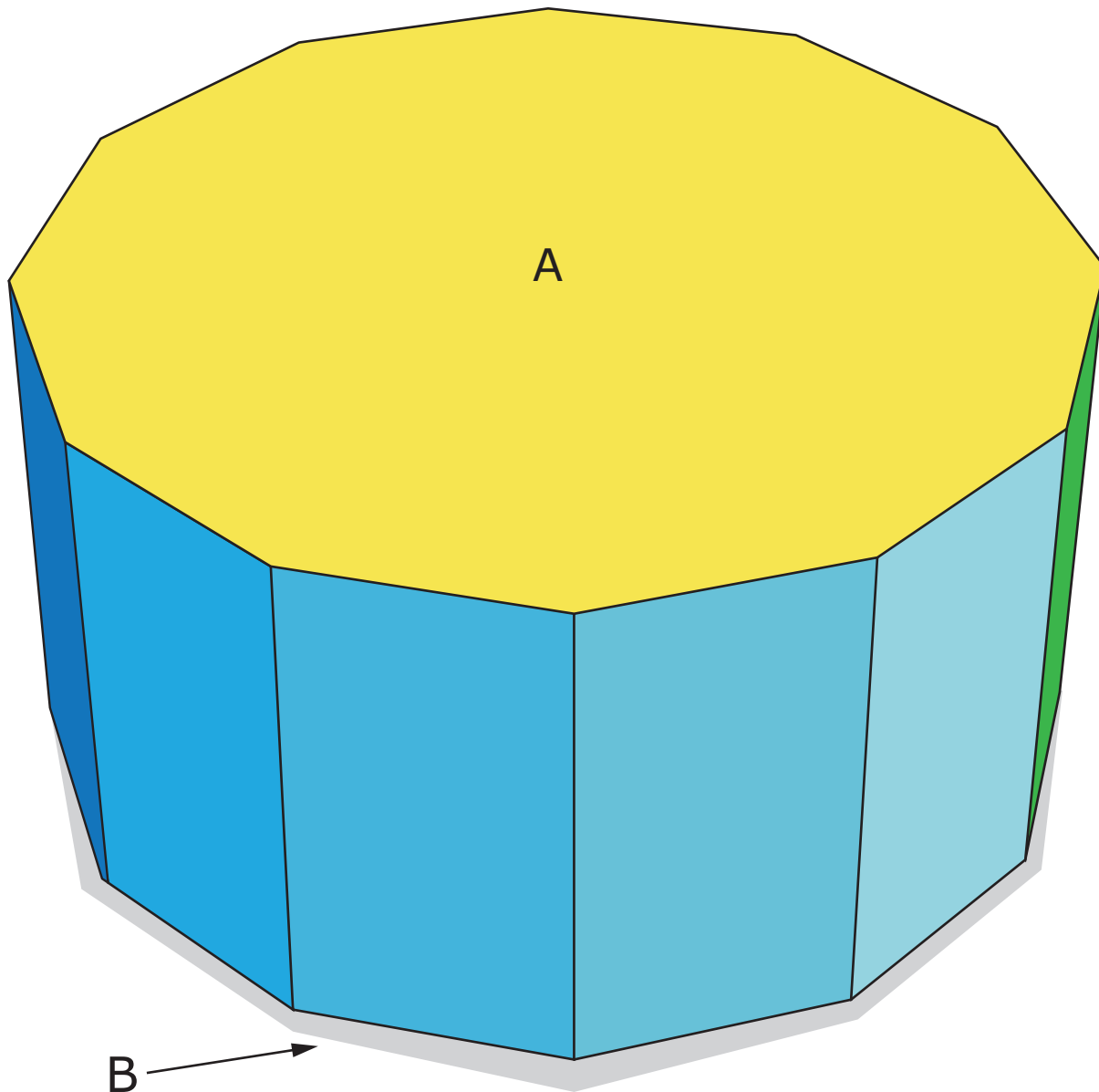


Image by MIT OpenCourseWare.



[Schevon 1989]

Image by MIT OpenCourseWare.



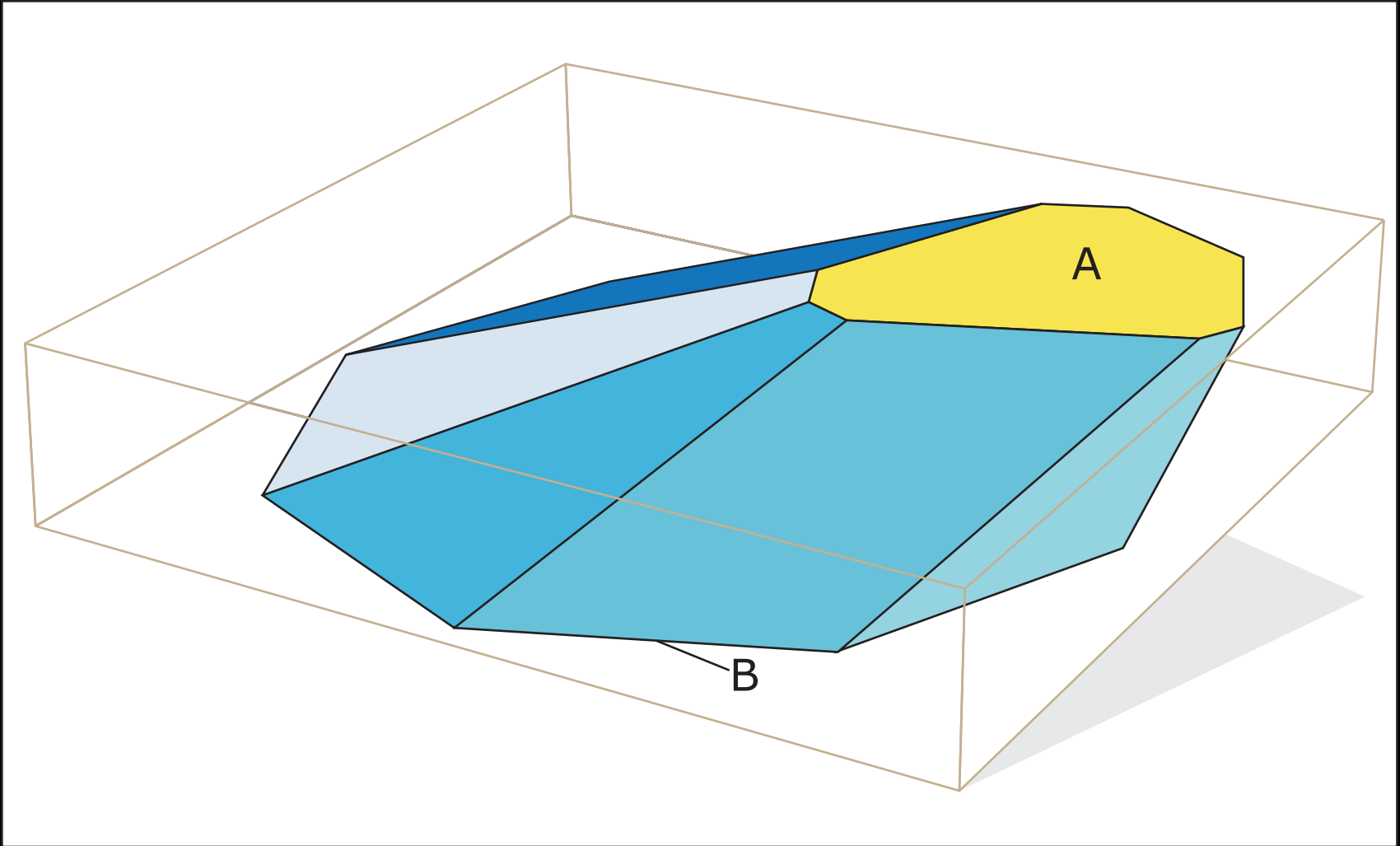
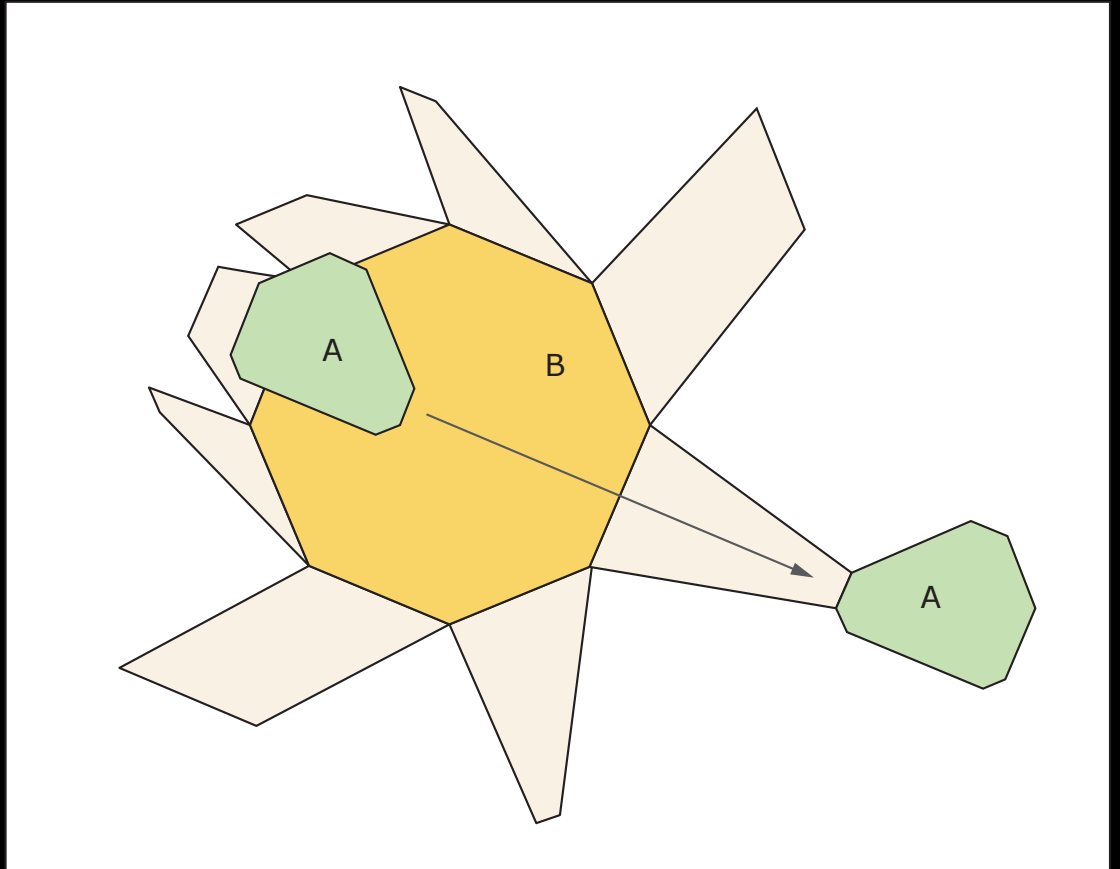
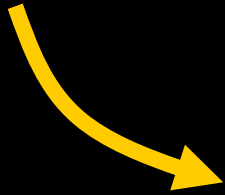
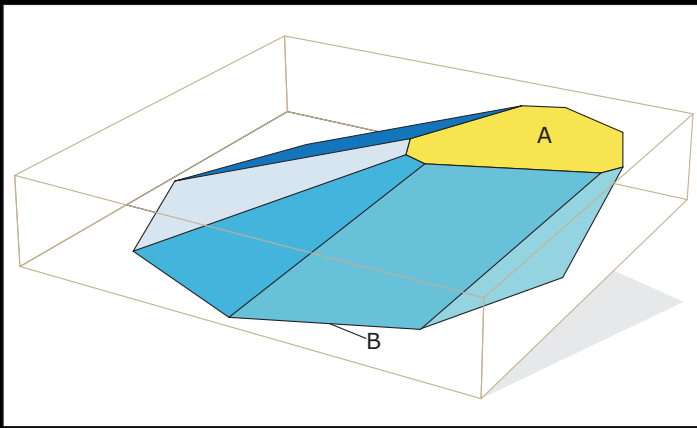
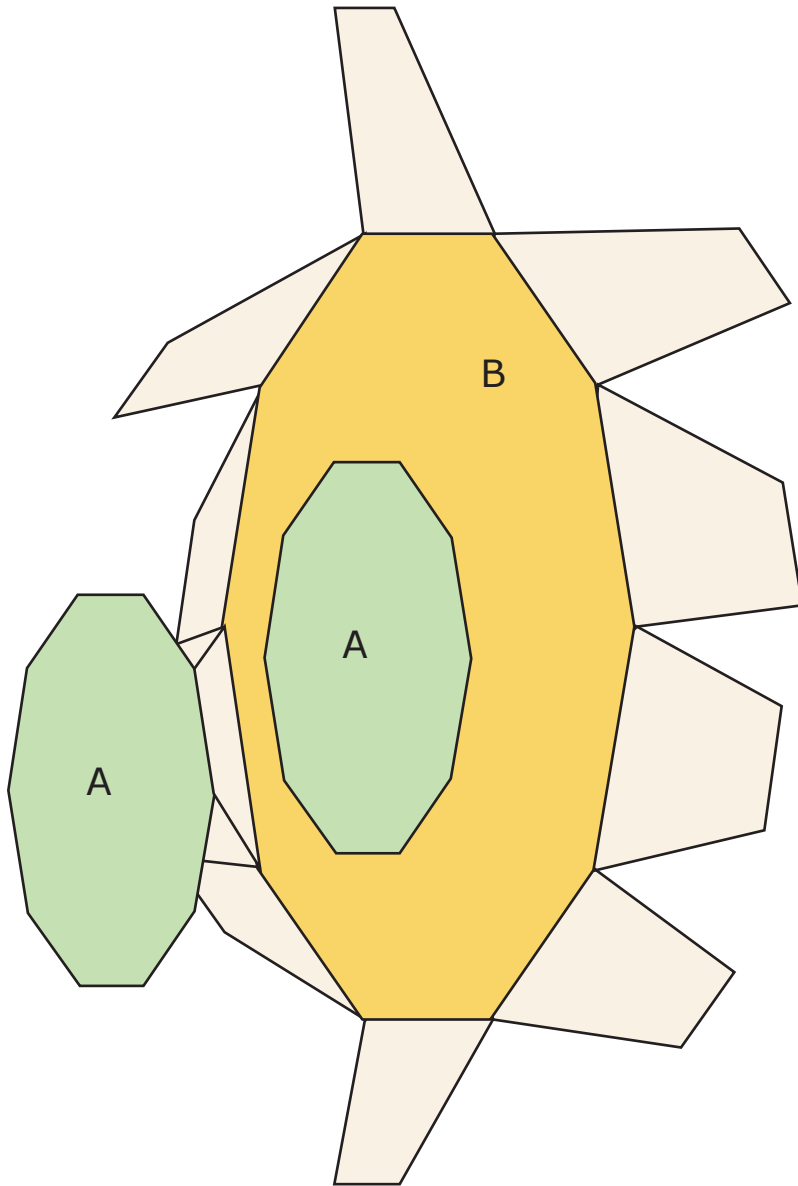


Image by MIT OpenCourseWare.



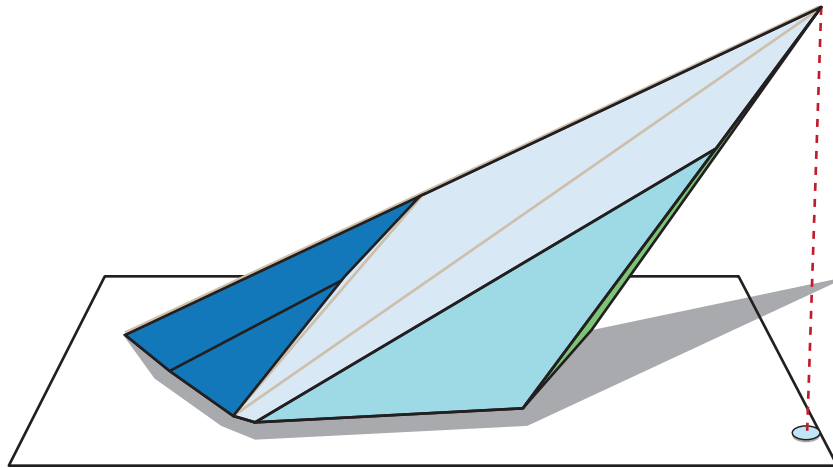
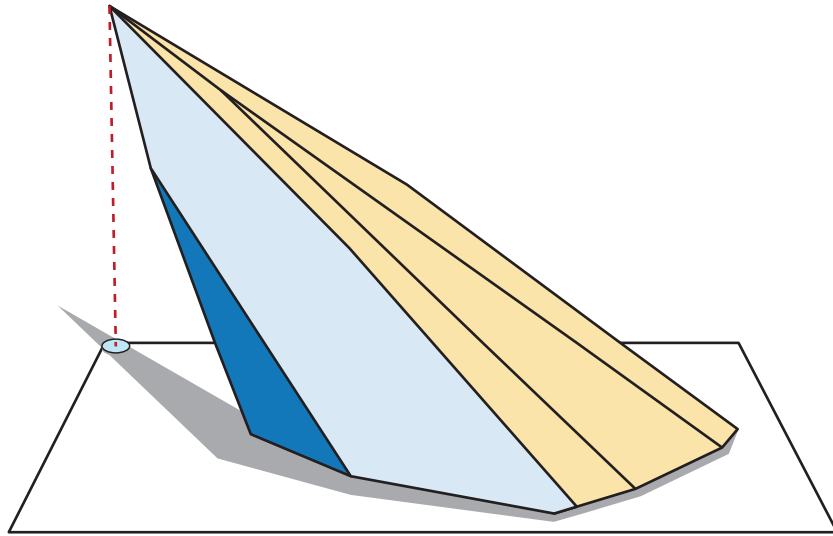
[O'Rourke 2001]

Images by MIT OpenCourseWare.



[O'Rourke 2001]

Image by MIT OpenCourseWare.



[O'Rourke 2007]

Image by MIT OpenCourseWare.

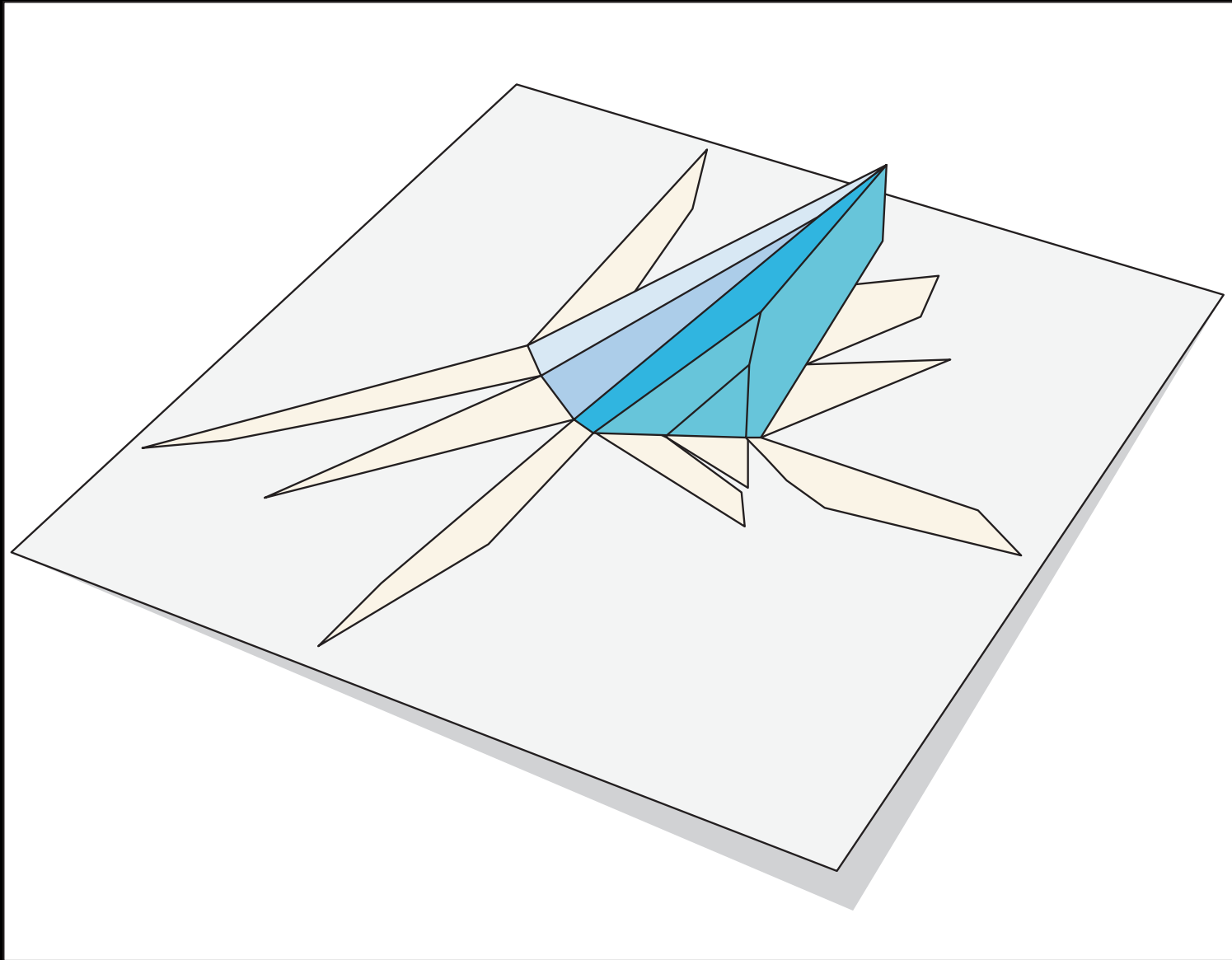
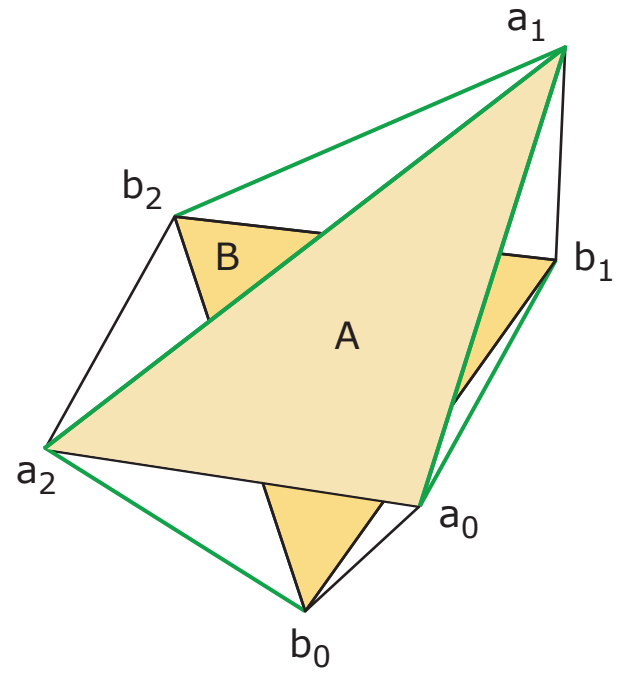
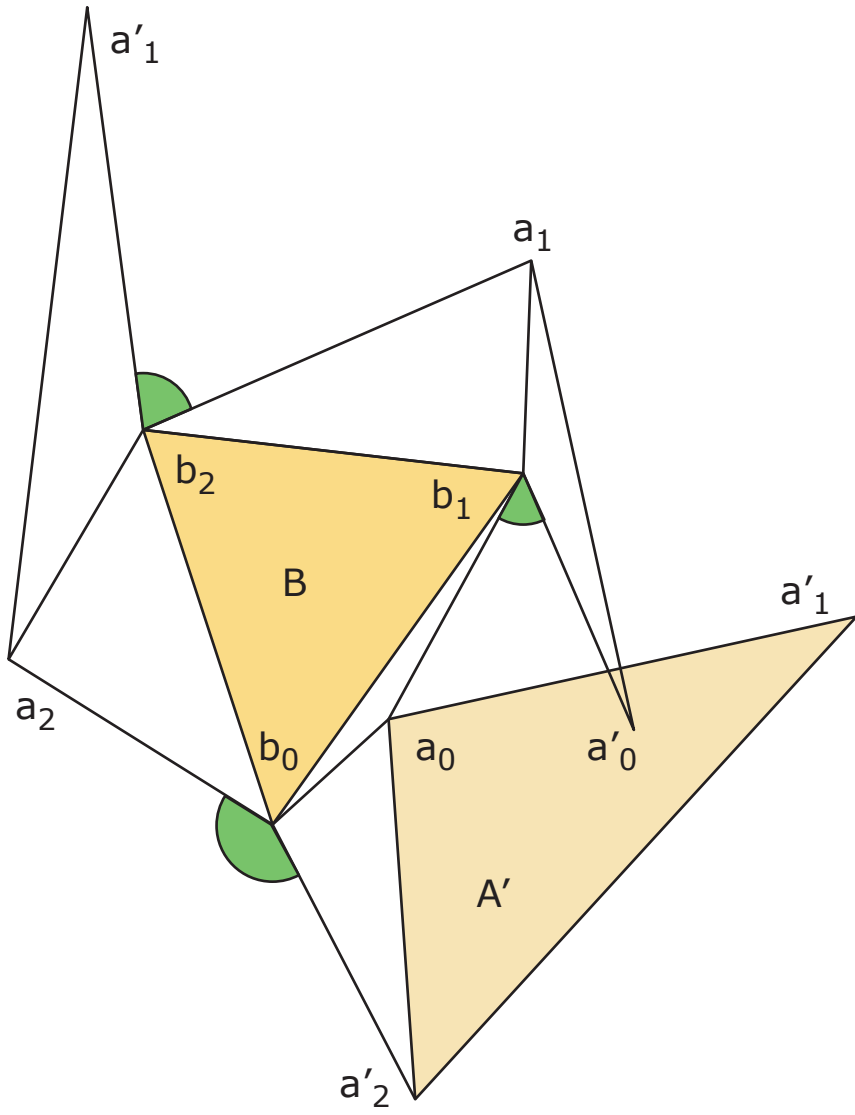


Image by MIT OpenCourseWare.

[O'Rourke 2007]



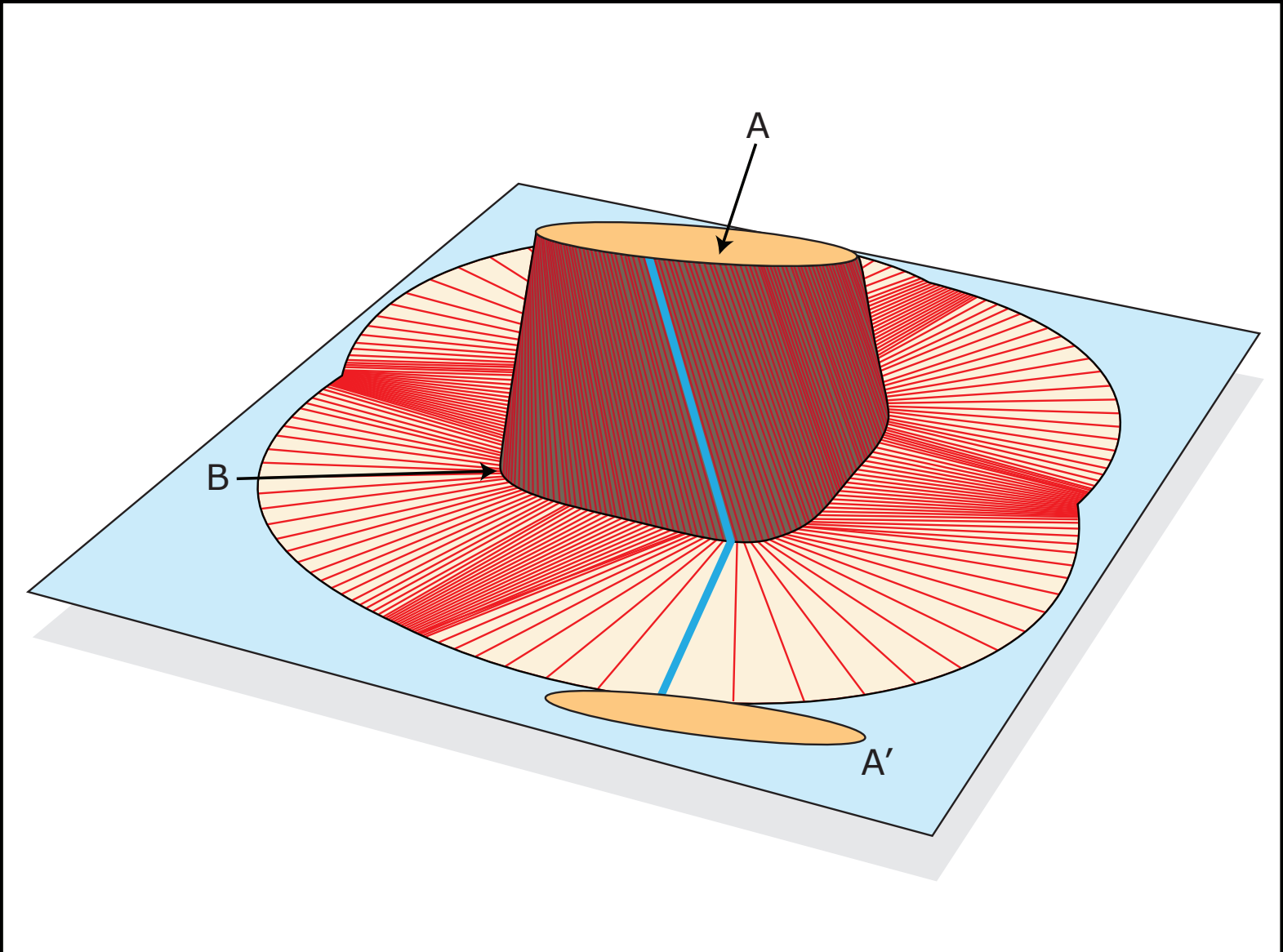


Image by MIT OpenCourseWare.

[Benbernou, Cahn, O'Rourke 2004]

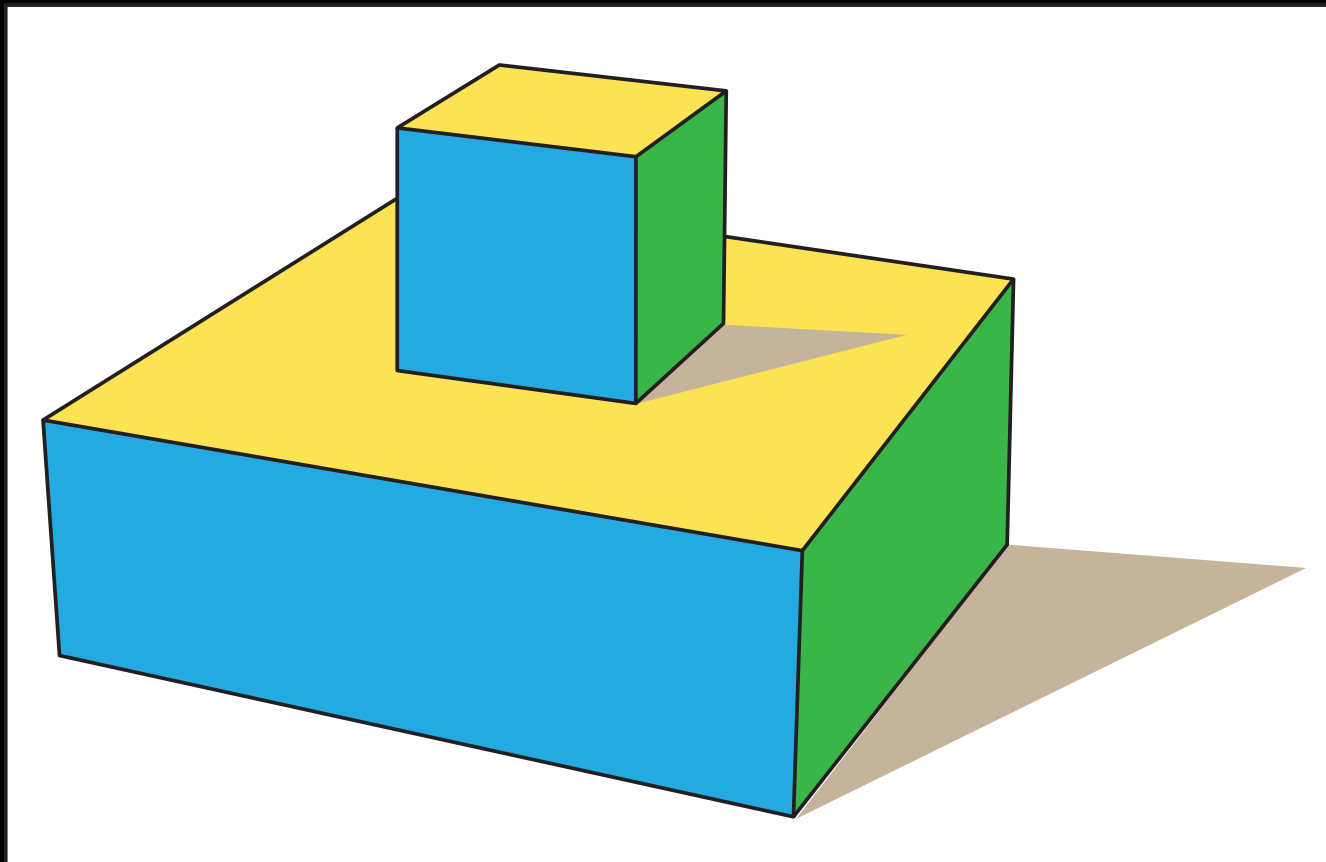


Image by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/CCCG98b/>.

[Biedl, Demaine, Demaine,
Lubiw, Overmars, O'Rourke,
Robbins, Whitesides 1998]

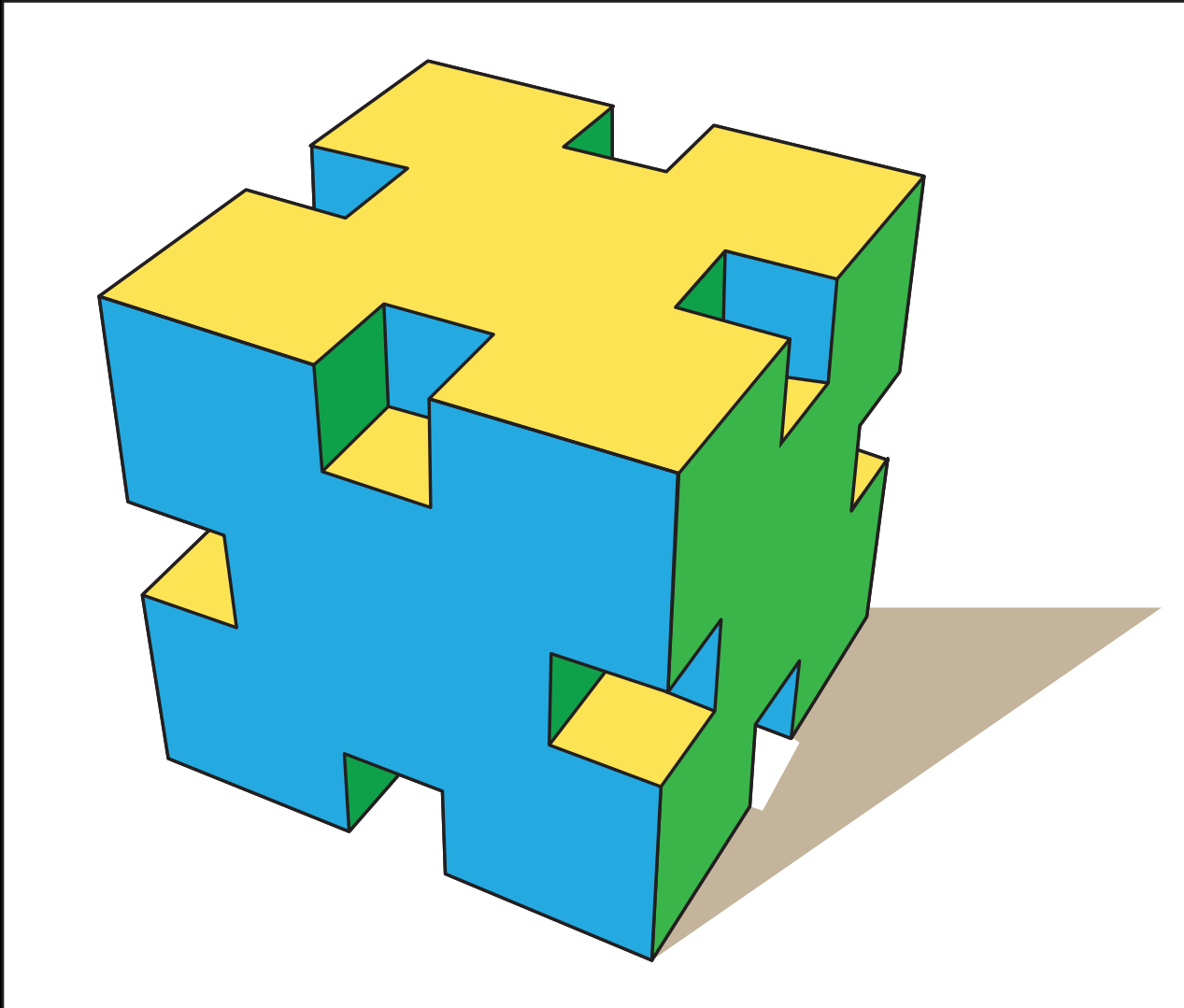


Image by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/CCCG98b/>.

[Biedl, Demaine, Demaine,
Lubiw, Overmars, O'Rourke,
Robbins, Whitesides 1998]

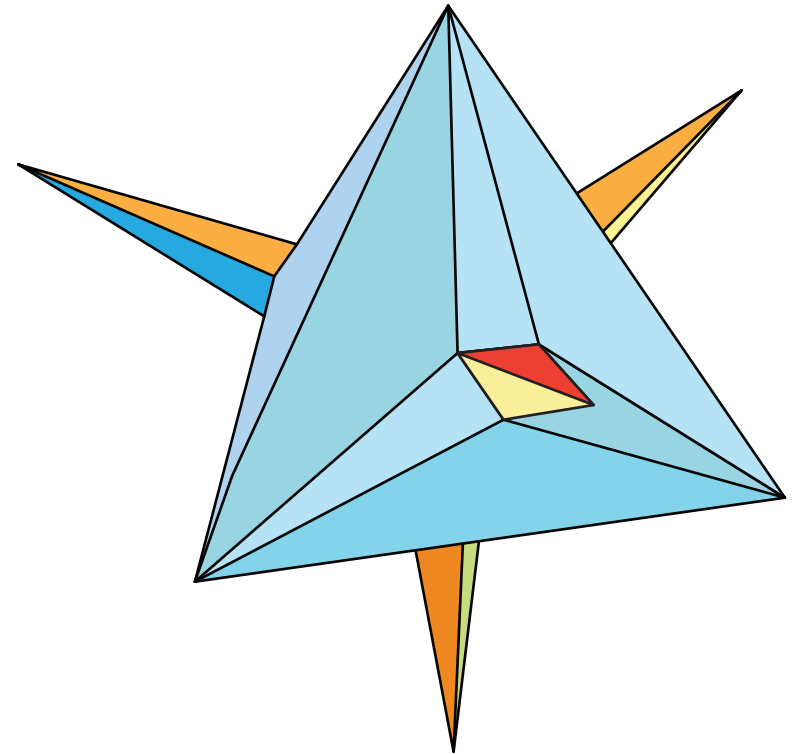
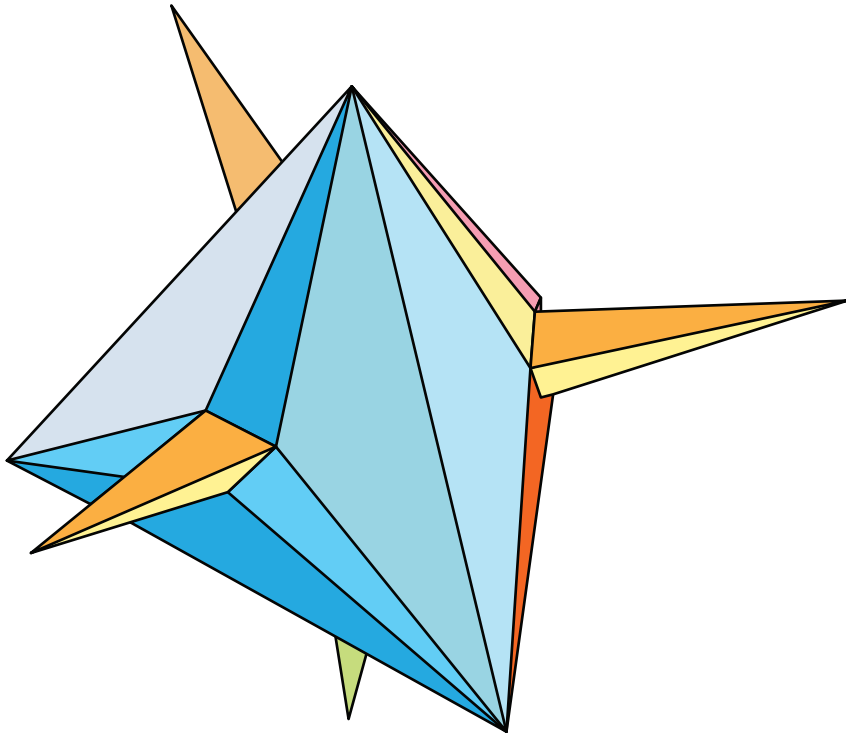


Image by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/Ununfoldable/>.

[Bern, Demaine, Eppstein, Kuo, Mantler, Snoeyink 2003]

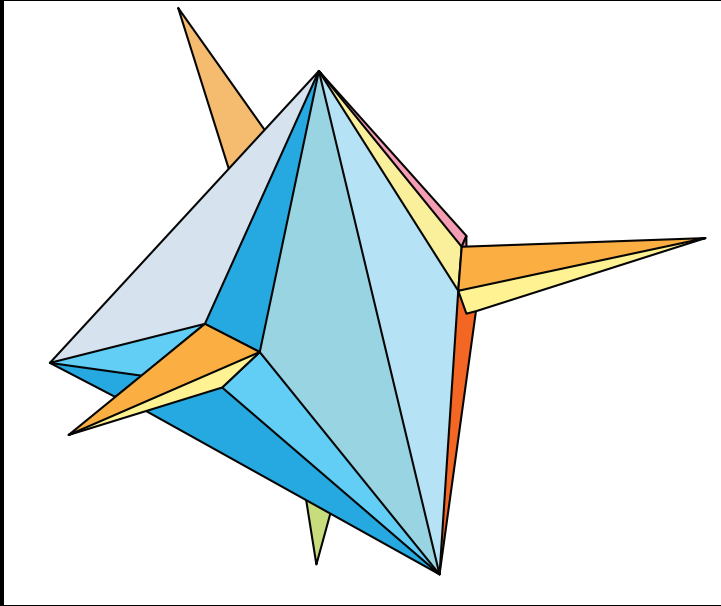


Image by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/Ununfoldable/>.

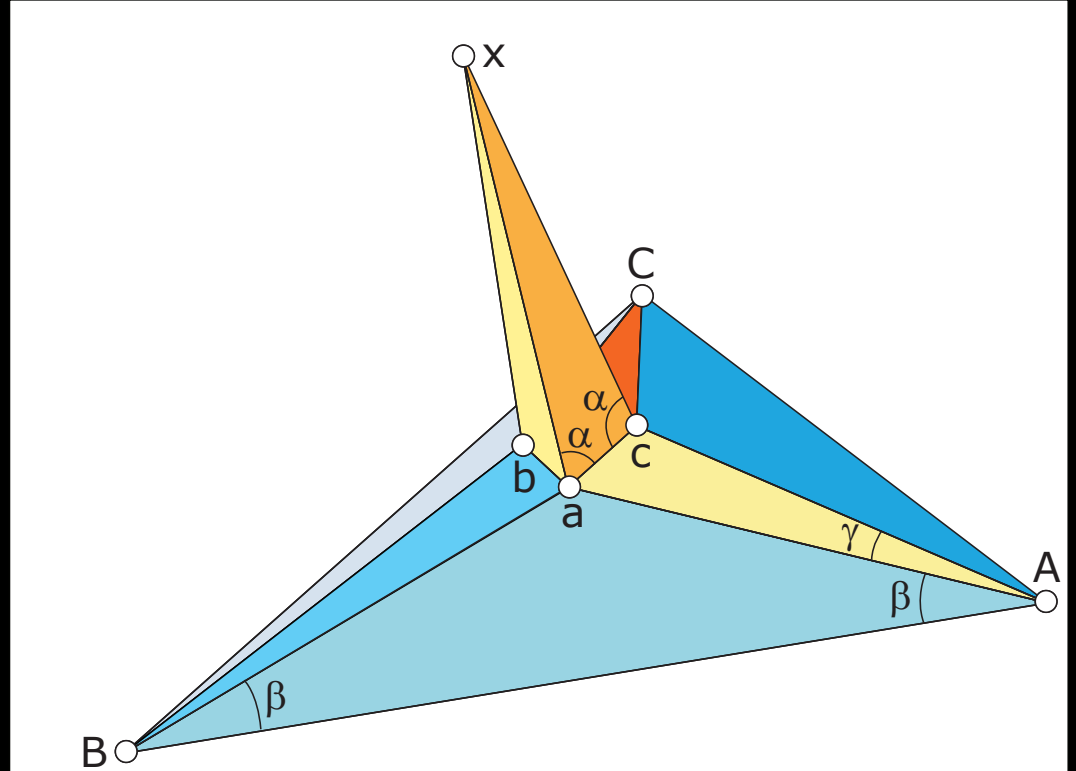
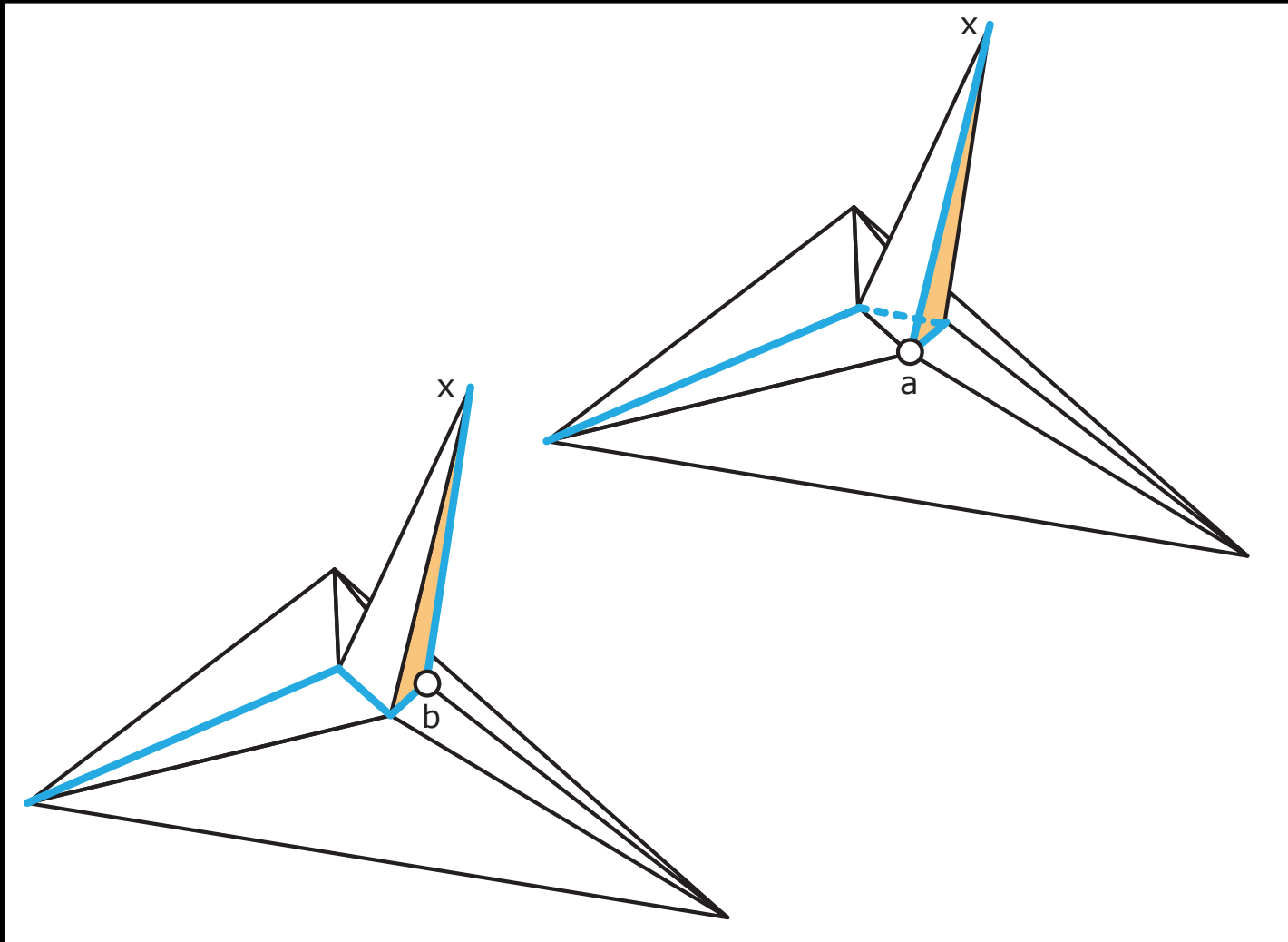


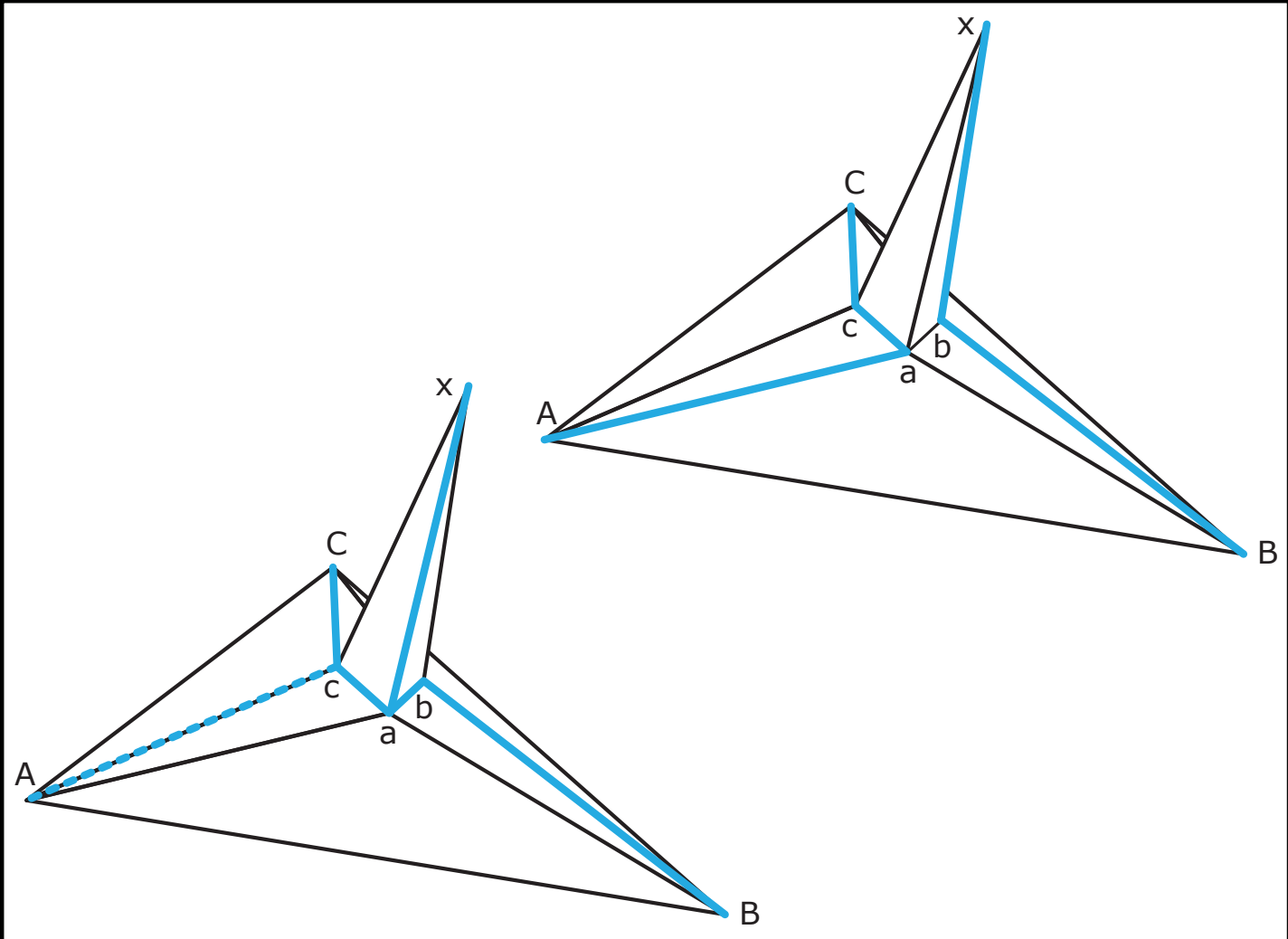
Image by MIT OpenCourseWare.

[Bern, Demaine,
Eppstein, Kuo, Mantler,
Snoeyink 2003]



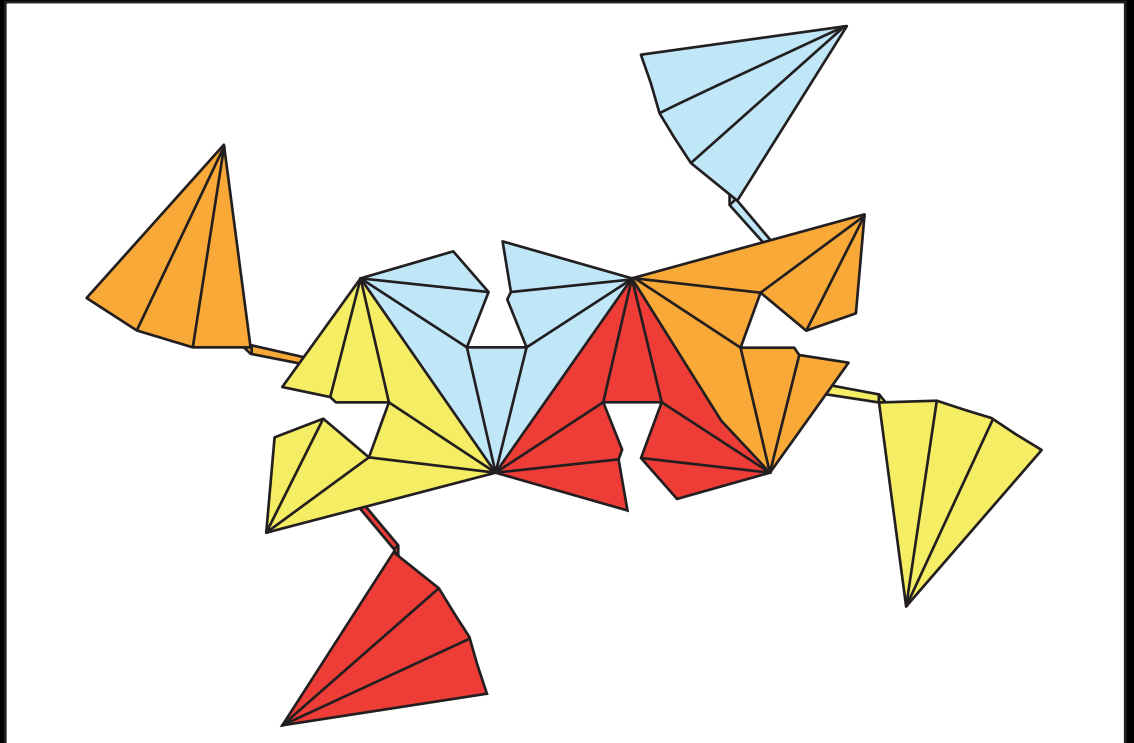
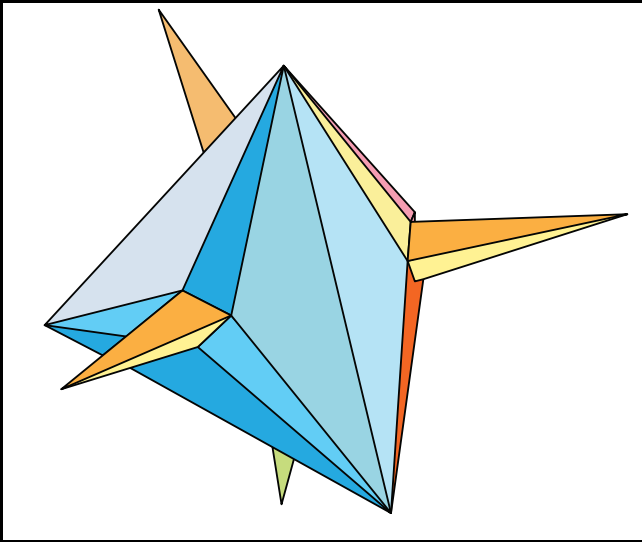
[Bern, Demaine,
Eppstein, Kuo, Mantler,
Snoeyink 2003]

Image by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/Ununfoldable/>.



[Bern, Demaine,
Eppstein, Kuo, Mantler,
Snoeyink 2003]

Image by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/Ununfoldable/>.



[Bern, Demaine,
Eppstein, Kuo, Mantler,
Snoeyink 2003]

Images by MIT OpenCourseWare.
See also <http://erikdemaine.org/papers/Ununfoldable/>.

MIT OpenCourseWare
<http://ocw.mit.edu>

6.849 Geometric Folding Algorithms: Linkages, Origami, Polyhedra
Fall 2012

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.