

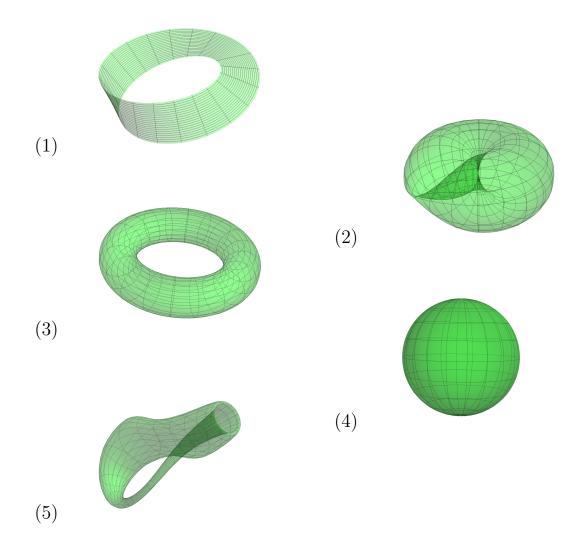


Remarkable surfaces

Name	Date
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Try to remember names of remarkable surfaces in space. Then answer the questions:

- a) is a surface orientable?
- b) is it possible to glue a surface of such type from a flat shape?
- c) is it possible to find a closed curve on the surface which cannot be contracted to point?







Answers

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(1)	Möbius ring	Answers: No, No, Yes
(2)	Projective plane	Answers: No, No, Yes
(3)	Torus	Answers: Yes, Yes, Yes
(4)	Sphere	Answers: Yes, No, No
(5)	Klein bottle	Answers: No, No, Yes