Mathematics 226H – Geometry I: Euclidean geometry
Trent University, Winter 2008
Problem Set #11
Due on Friday, 4 April, 2008.

1. Exercise 4B.2 *[5]*

2. Exercise 4D.3 *[5]*

Note: In solving both exercises, you may assume, if you find it useful to do so, that earlier exercises in the text are true.

Some math nursery rhymes

Solomon Grundy
Conjectured on Monday
Hypothesized Tuesday
Existed on Wednesday
Constructed on Thursday
Uniquely on Friday
Contradicted on Saturday
Disproved on Sunday
And that was the end
    of Solomon Grundy.

Little Jack Horner
Sat in the corner
Trying to work out π.
He said 'It's minus the logarithm
Of minus one to the i.'

Twinkle,
Little
Empty set:
Have you
Any
Members
Yet?

Top, Top, Topology!
Holes are found by homology!
Orientations
Cause complications;
So use Z_2 on all occasions.

From *Seven years of manifold 1968-1980*.