Steve Wilson's geometry test

The following online file contains a test given by W. Stephen Wilson of Johns Hopkins University to assess the background skills of students who were beginning a course in multivariable calculus:

http://www.math.jhu.edu/~wsw/GEOM/geometry.pdf

In Wilson's words, "To be fair, the geometry test was not normal, [and in fact] it was hard." "I gave this test to my [Mathematics] **240** Calculus **3** students on the first day of class, Fall, **2008.** The average was **2.16** out of **10,** but to be fair, they only had about **35** minutes."

http://www.math.jhu.edu/~wsw/ED/arithgeomstudy08.pdf

Here is another link to a site containing the "infamous" geometry test and synthetic derivations of its answers given by Wilson:

http://www.math.jhu.edu/~wsw/GEOM/answers.pdf

The following file contains solutions to the problems using vector geometry (in other words, analytic solutions):

http://math.ucr.edu/~res/math246A/wswvectorproofs.pdf