

PMU 199 Aha! Mathematical Discovery and Creative Problem Solving
Assignment 5

Prof. McCann

Due: Thursday Feb. 9, 2017

NOT TO BE HANDED IN:

Read Sections 4.5 and 6.2 of 4th ed. (or equivalently §5.4 of 3rd) and Thurston's article linked at www.math.toronto.edu/mccann/199

§6.2 # 17, 29, 30, 31, 33

Be prepared, as usual, to be quizzed on this material.

TO BE TURNED IN :

§4.5 # 19, 21

§6.2 # 28, 35 of 4th ed. (§5.4 of 3rd ed.)

Plus the following challenge question: There are three houses, and each has a gas line (running from the gas company) and an electric line (running from the electric company), and a water line (running from the water company). Even allowing the lines to be curved instead of straight, prove it is impossible to draw all the lines in the plane without having some of the lines cross one another.

NB: Your second journal entry is due Friday 10 Feb 2017.