

Do problems 3 and 4 from Lesson 2 in "Lessons in Math and Art". The first one of these involves finding the perspective images of enough key points on a house to be able to draw the outline of the house. You'll want to use Excel for this. I'd suggest plotting the points by hand rather than in Excel as he suggests – it may take longer, but it looks better and you can follow more easily which one is which, and label them. The second problem is to come up with 3 dimensional coordinates for some windows, a door, a yard, and a chimney (where the bottom vertices of the chimney should preferably actually lie on the roof, although that gets hard), and then to find the perspective images of those new points and add them to your graph of the house. You don't have to do exactly what the author of these lessons suggests; feel free to get creative if you'd like.

For this, you don't really need to write an accompanying paragraph.