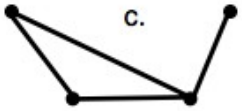
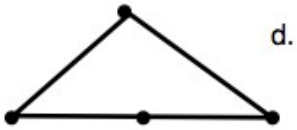
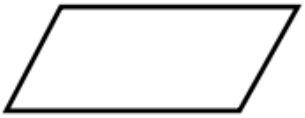
Math4020, Polygons Worksheet

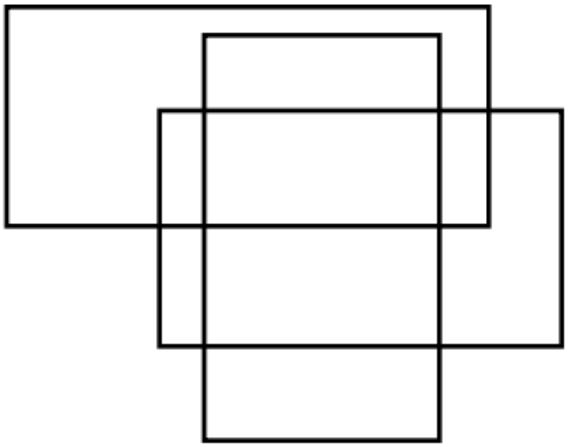
1. Which of the following figures are NOT quadrilaterals? Explain why.

a. b. c.  d. 

2. Give as many (mathematically precise) names as possible for the figures:

a. b.  c.

3. How many rectangles are in this figure?

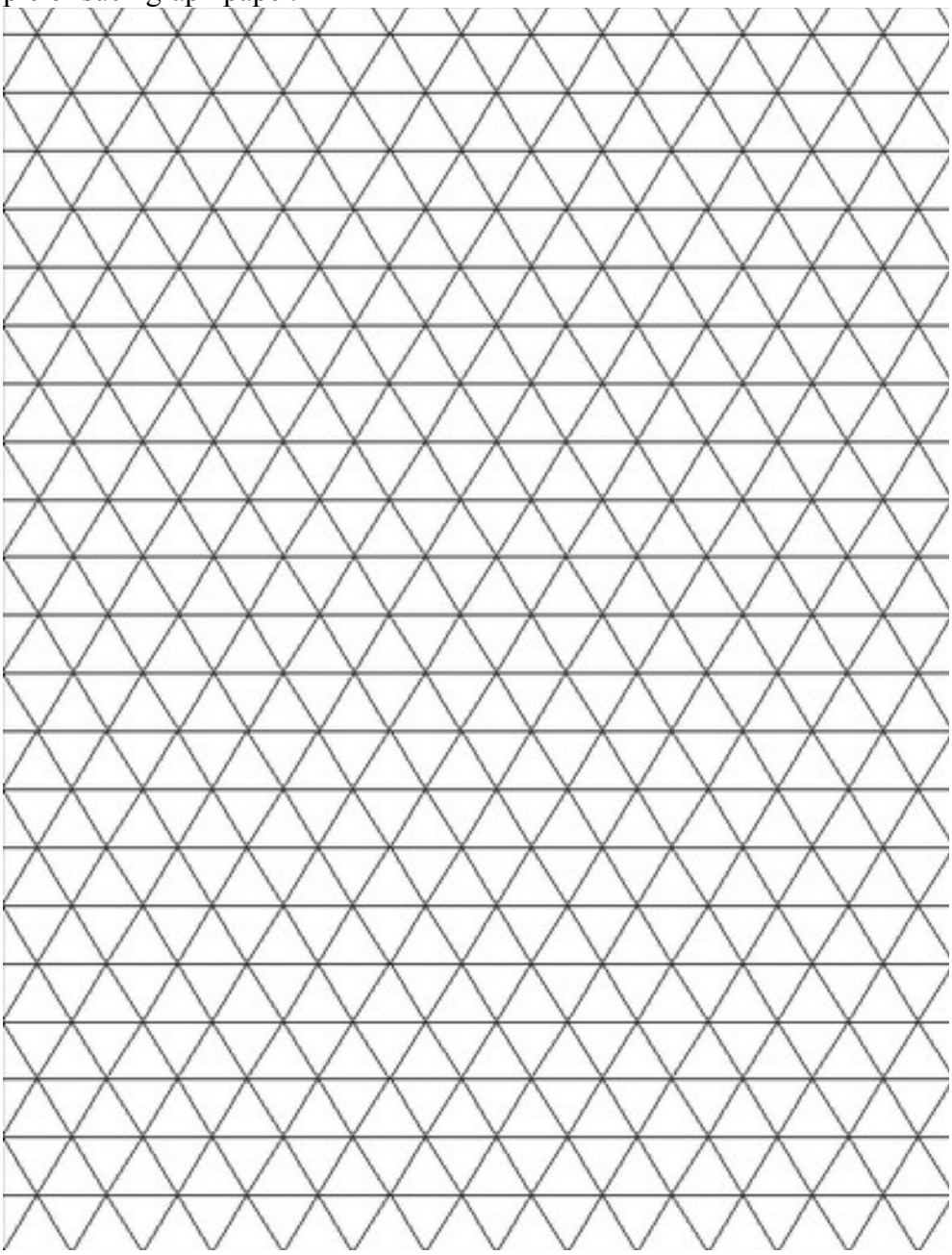


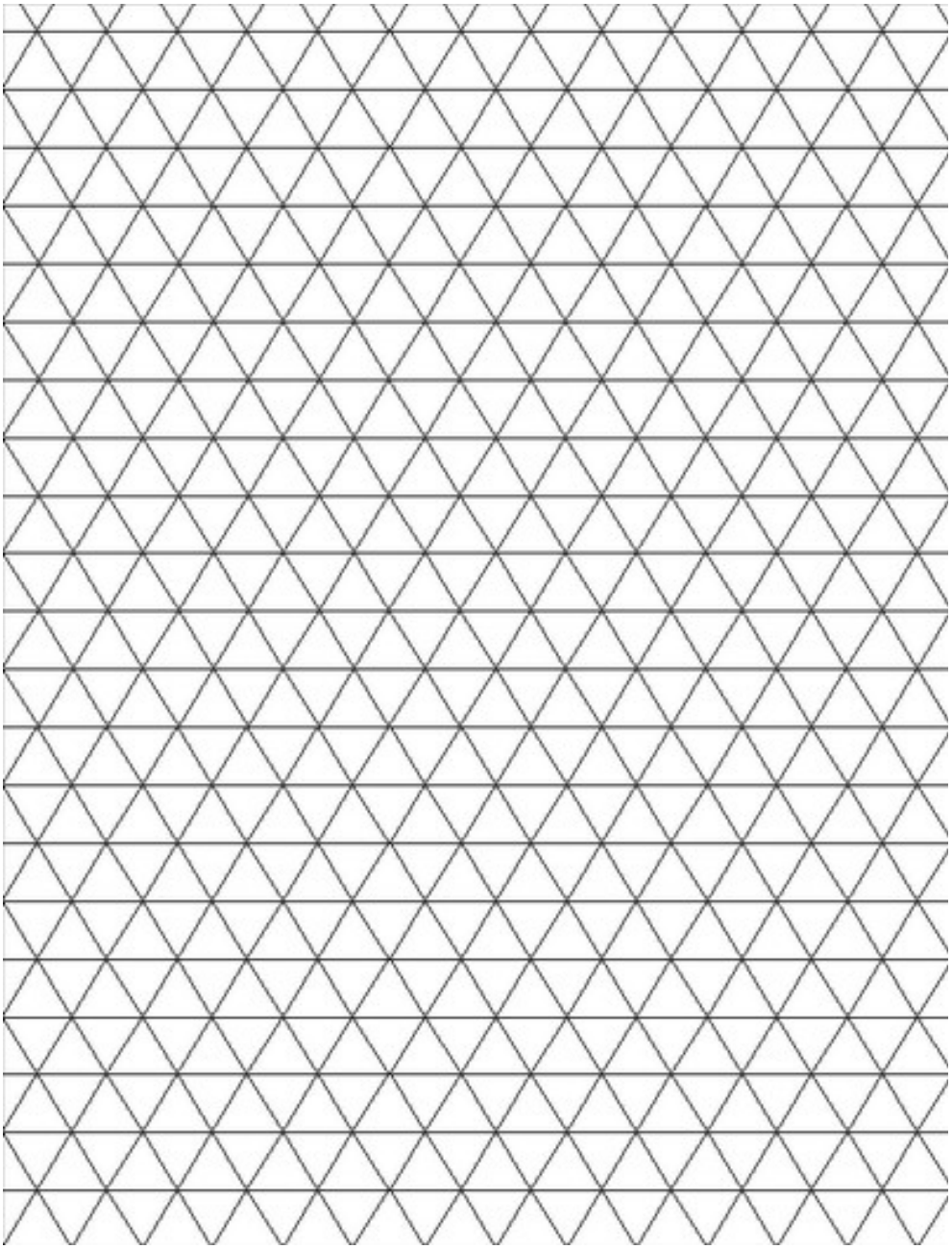
4. Draw how you would divide this rectangle (not a square) into four congruent right triangles.

5. On a sheet of isometric graph paper (i.e. equilateral triangle graph paper), draw the following shapes, if possible. Some will not be possible!

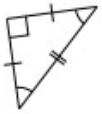
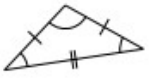
(a) isosceles (but not equilateral) triangle
(b) square
(c) rectangle that is not a square
(d) rhombus that is not a square
(e) parallelogram that is not a rhombus
(f) right triangle
(g) isosceles right triangle
(h) trapezoid

Here is a sample of such graph paper.





6.

Classifying Triangles (A)

Classify each triangle using its side and angle properties.