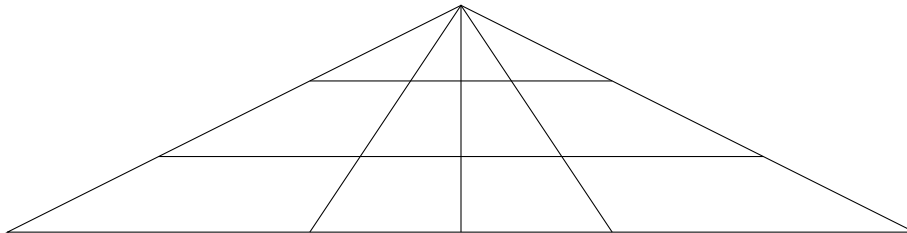


12 Days of ChrisMATH — Day 7

For today's problems, you must find how many triangles are formed by the given lines, that is, every side of the triangle is part of a given line.

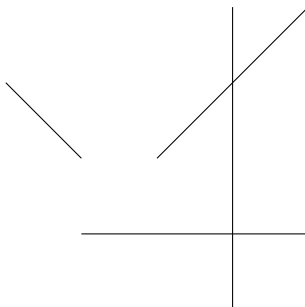
Level 1:

How many triangles can be formed from the lines below?



Level 2:

Imagine we were to extend all lines below infinitely in both directions. How many triangles can be formed from the resulting lines?



Level 3:

Imagine we were to extend all lines below infinitely in both directions. How many triangles can be formed from the resulting lines? To aid in your drawing, no 3 lines will intersect at the same point and every two lines will definitely intersect somewhere.

