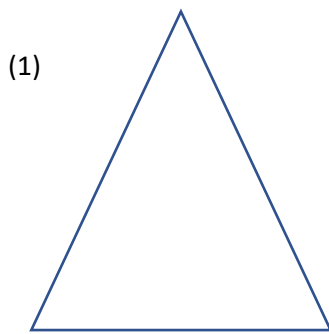


Worksheet 2

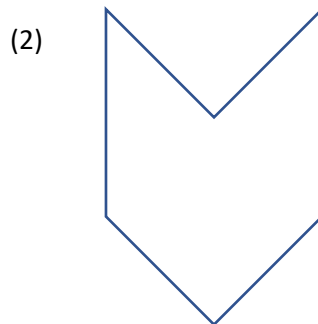
An Education Museum in our city!

The figures below correspond to rooms. In each figure you should place the minimum number of security cameras, so that every part of the inside space is monitored.

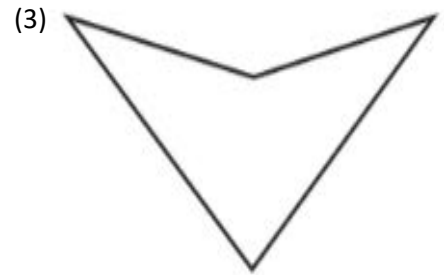
(a) Draw the points where the cameras will be placed and note the number of cameras you will use.



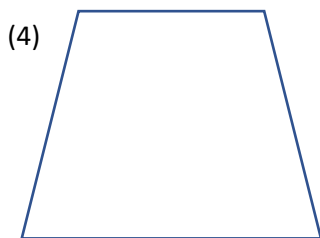
Number of cameras :.....



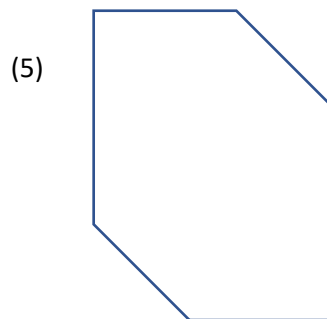
Number of cameras :.....



Number of cameras :.....



Number of cameras :.....



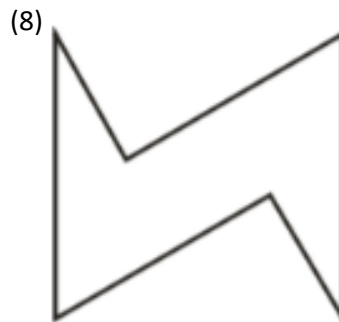
Number of cameras :.....



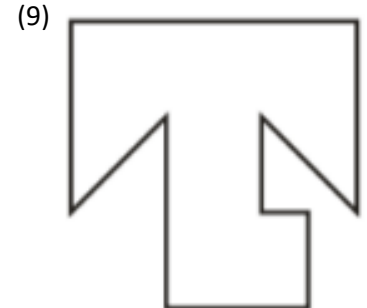
Number of cameras :.....



Number of cameras :.....



Number of cameras :.....



Number of cameras :.....

(b) Answer the following questions.

1. Can be more than one correct answer for each room?

Explain.

2. What criteria have you considered in order for your answer to be correct?

3. In which cases does the general formula apply and in which does not apply?

4. How many cameras are needed for fully monitoring the inside space of a convex polygon? Explain.