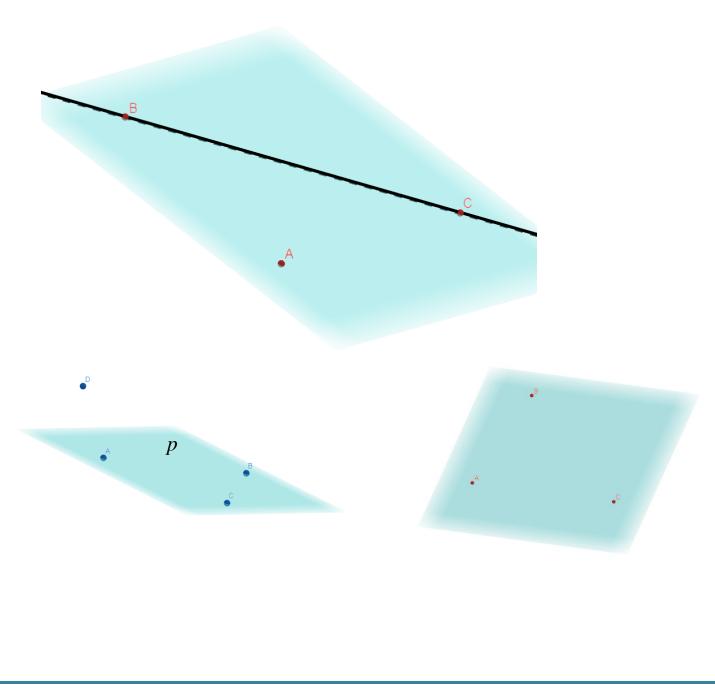
Math 4 e. Class work 24.

Through two points we can draw only one line, so it can be said that a line is defined by two points. A plane is defined by three points, so through any three points a plane can be drawn.

Point can belong to the line or not. Points A and B belong to the lime *m*, point C does not.



 $C \in m, B \in m, A \not\in m$

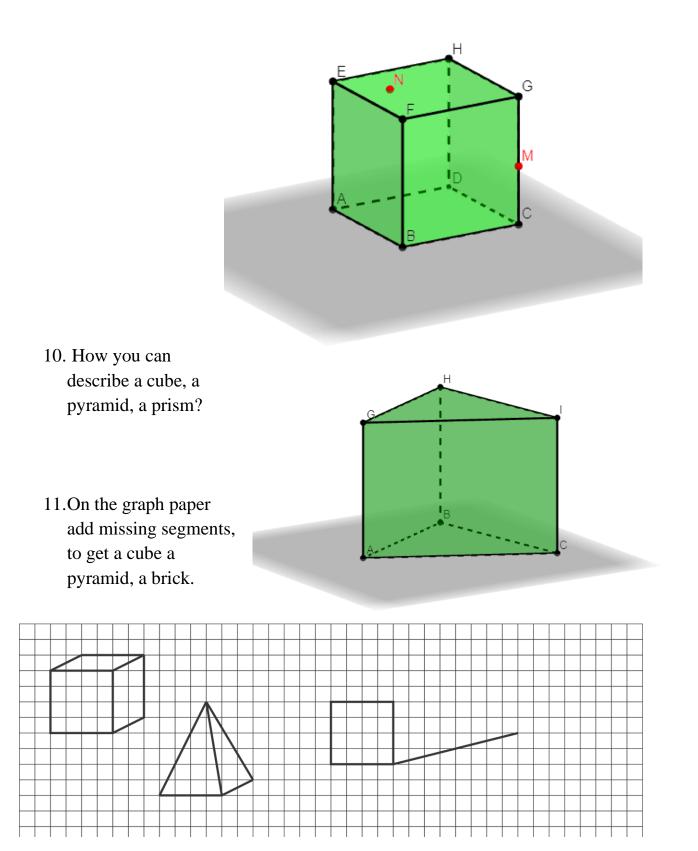


- 1. How many planes are there containing two given points?
- 2. Why a tripod has three legs?
- 3. Why a table, which has four legs is not always stable?
- 4. Which of the following statement is true:
 - a. If three points belong to the same line they also belong to the same plane.
 - b. If three points belong to the same plane, they also belong to the same line.
- 5. There is a line l. How many planes can contain that line l?
- 6. What is the difference of the positions of line and plane on the pictures:

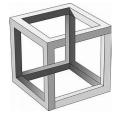
- 7. How many lines can be drawn through pairs of ppoints A, B, C, D if they are on the same plane? If they are not on the same plane?
- 8. How many lines intersect a plane containing the face ACB of the pyramid? Does the point D belong to this plane? To which planes does point D belong to?



9. How many pairs of parallel planes defined by the verteces of a cube?



12.Can these things exist?





13.On the graph paper draw how this figure from above, from left and from front view.

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