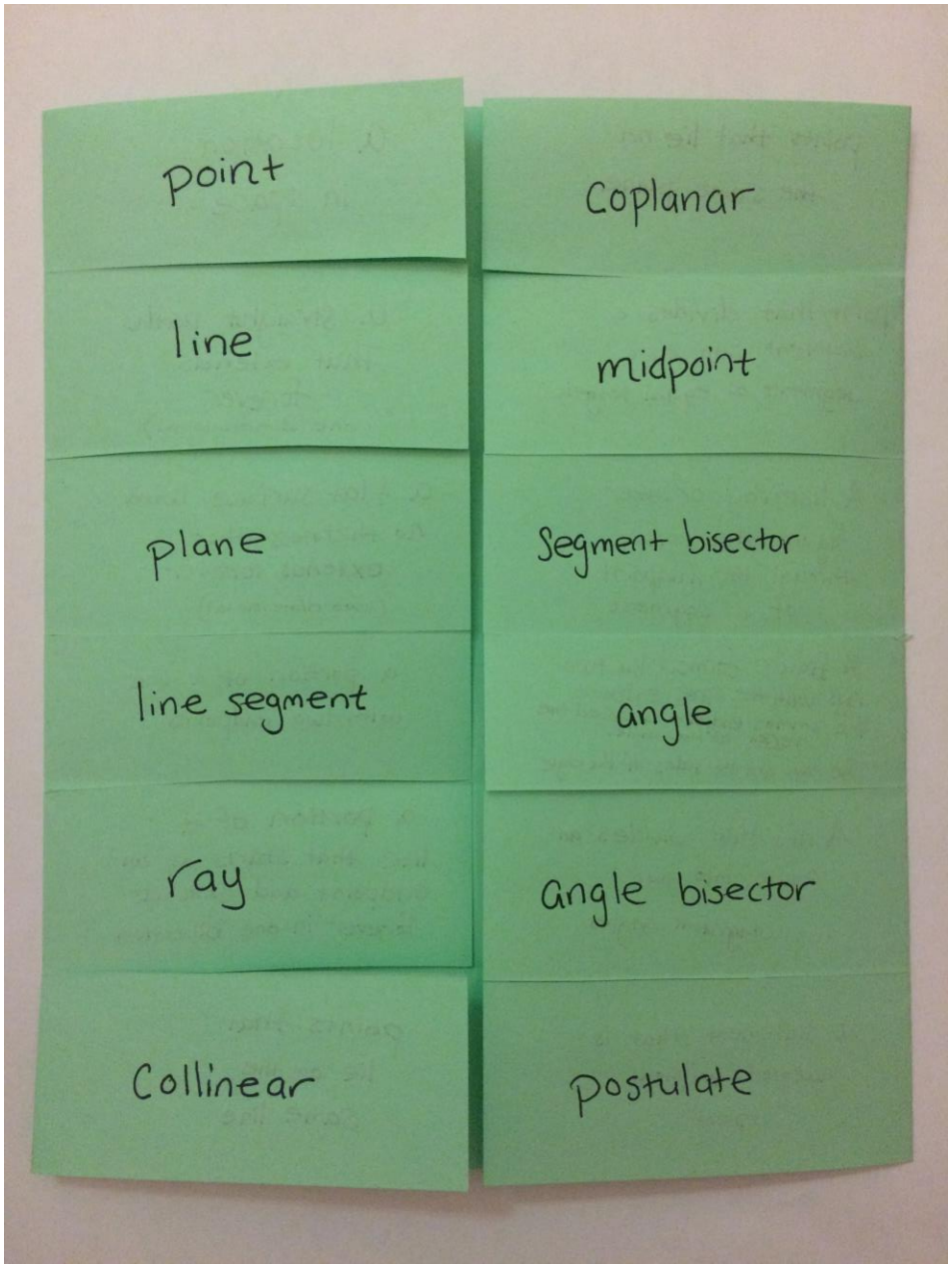
Created by Mr. Lischwe

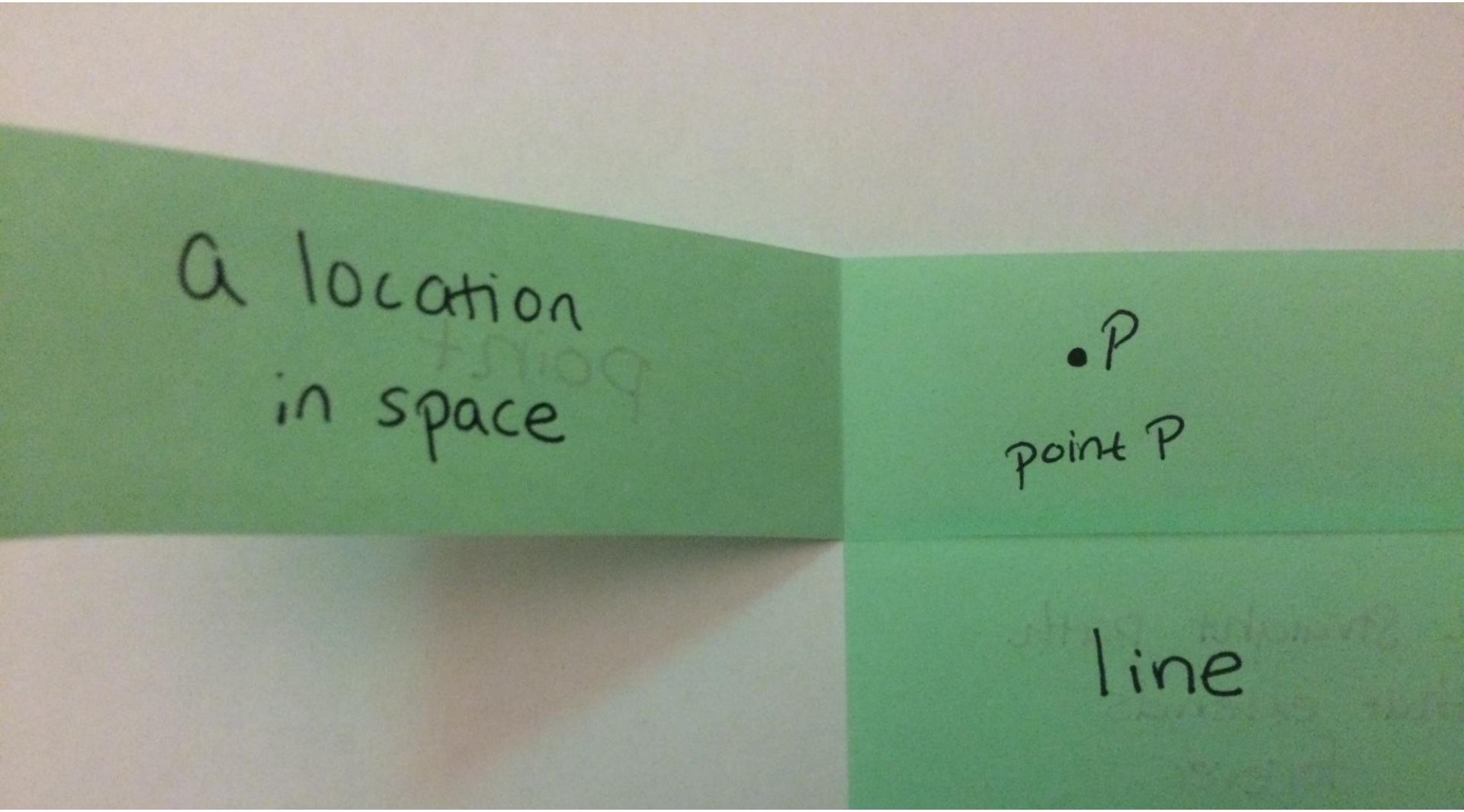
Warmup 1/(# of days we have had so far in 2020, including today)

1. Write the equation of a line in slope intercept form of a line that has a slope of -2 and contains (1, –6).
2. Simplify using exponent rules.
   - $x^4 \cdot x^6$ ____
   - $\frac{x^{10}}{x^7}$ _____
   - $(x^3)^6$ ____
   - $(3)^{-3}$ _____
3. Find the slope between the following points: $(-1,8), \text{and } (7,2)$

Collect Benchmarks


point
line
plane
line segment
ray
Collinear
Coplanar
midpoint
Segment bisector
angle
angle bisector
postulate

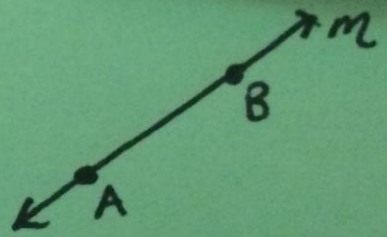
Point



Line

point

a straight path that extends forever (one dimensional)

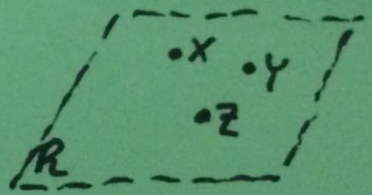


line m
$\overleftrightarrow{AB}$
$\overleftrightarrow{BA}$

plane

Plane

a flat surface with no thickness that extends forever (two dimensional)



plane R
plane XYZ
plane ZXY
plane YZX

line segment

Undefined Terms

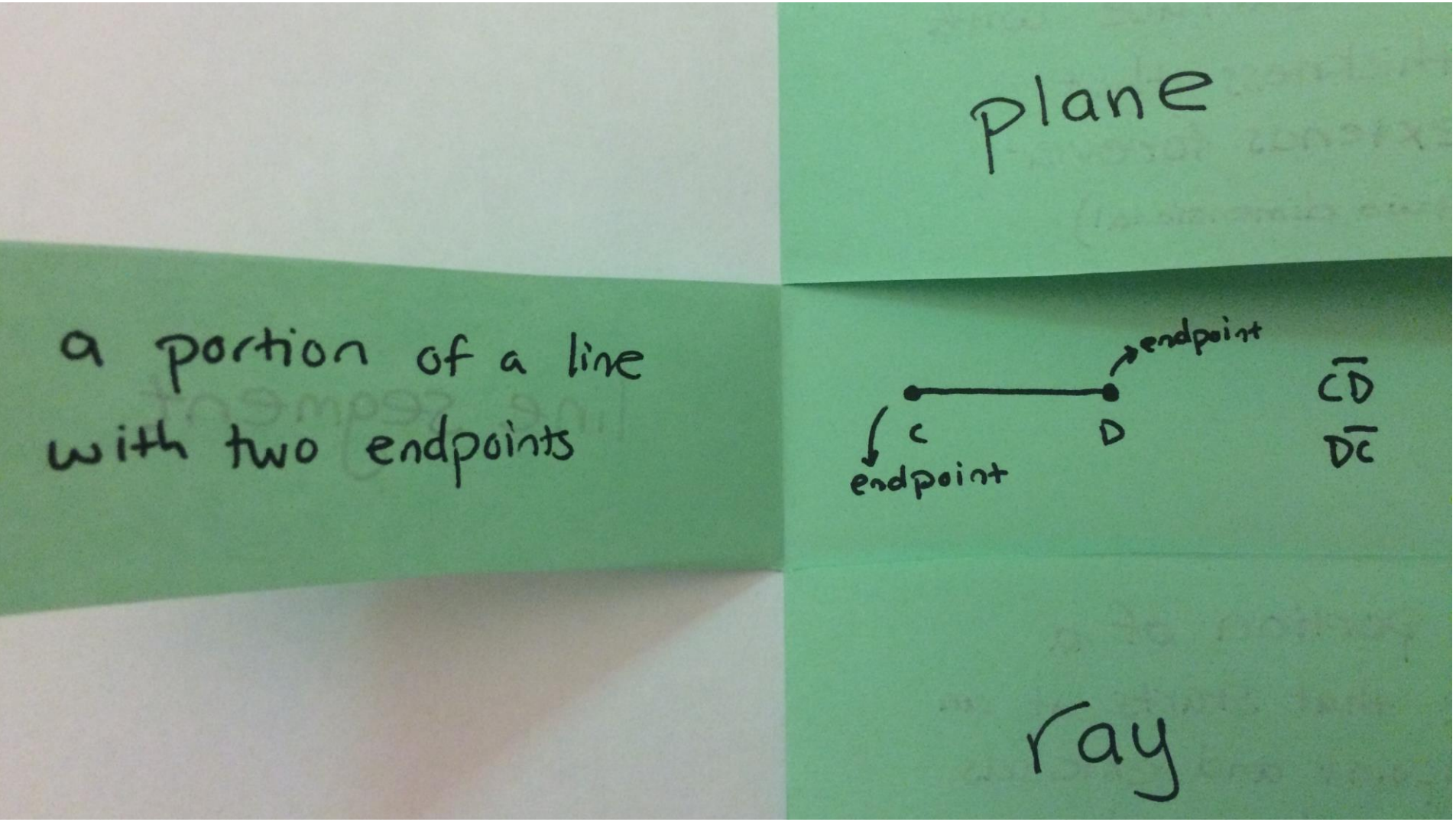
- Point, line, and plane are undefined terms. We call them this because they are the most basic terms in Geometry.
- They cannot be defined using other terms.

- These are the “building blocks” that everything else in geometry is based off of.

Defined Terms

- Now that we know what undefined terms are, what are defined terms?
- What is classified as a defined term?
- Defined terms are terms that are defined by undefined terms.

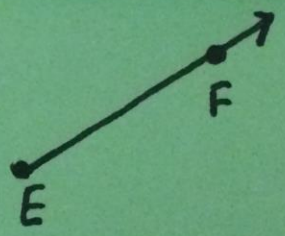
Line Segment



Ray

a portion of a line that starts at an endpoint and extends forever in one direction

line segment

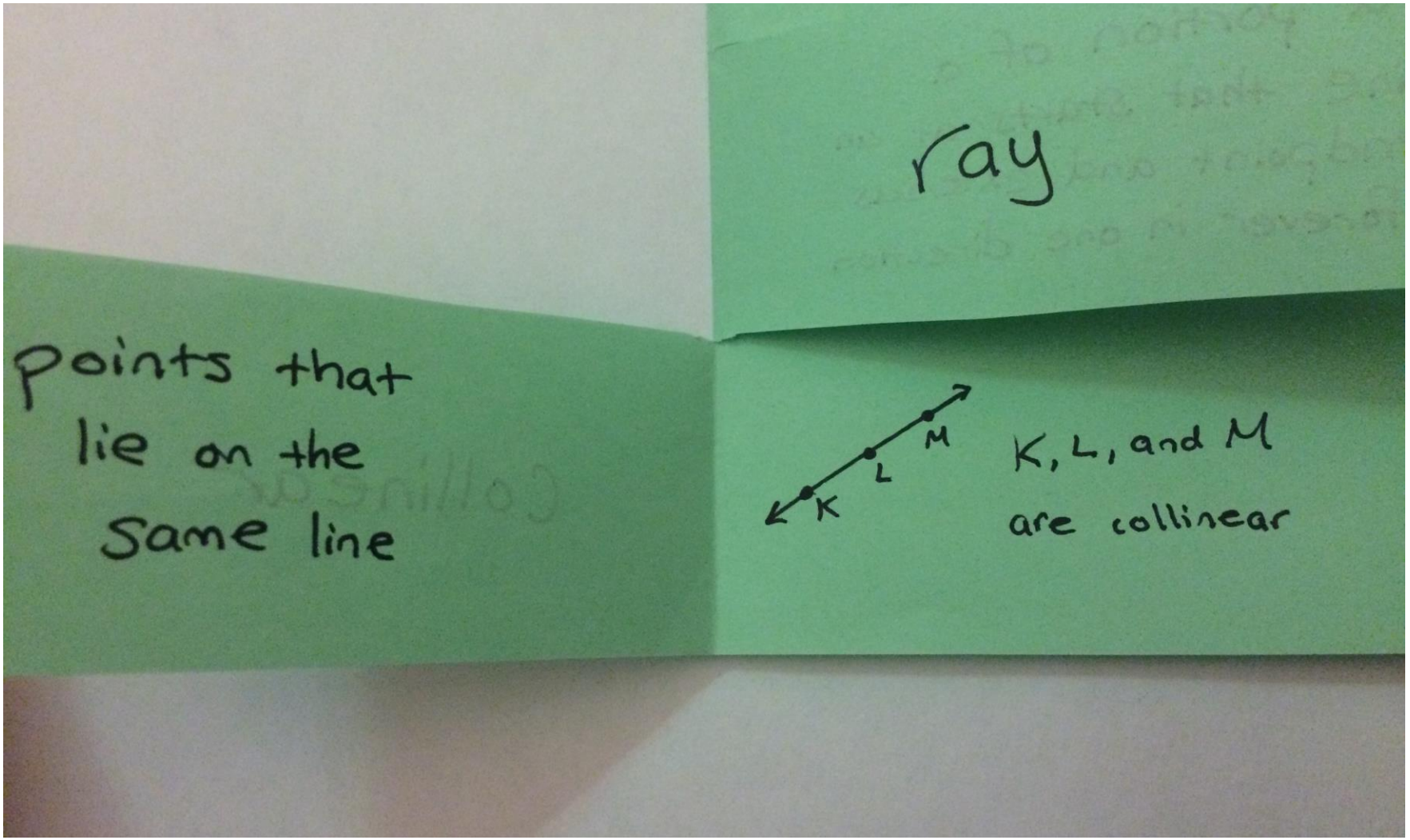


$\overrightarrow{EF}$

Quick Reflection

- Is $\overrightarrow{KJ}$ the same as $\overrightarrow{JK}$?

Collinear


ray
points that lie on the same line
K
L
M
K, L, and M are collinear