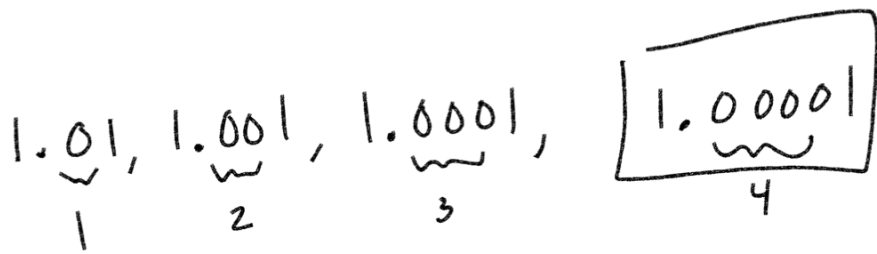
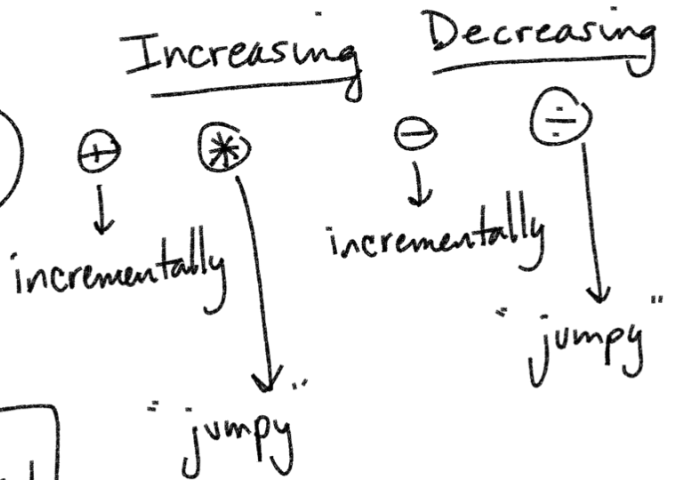
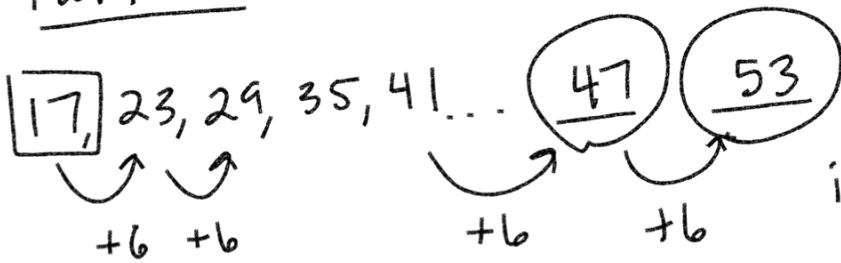
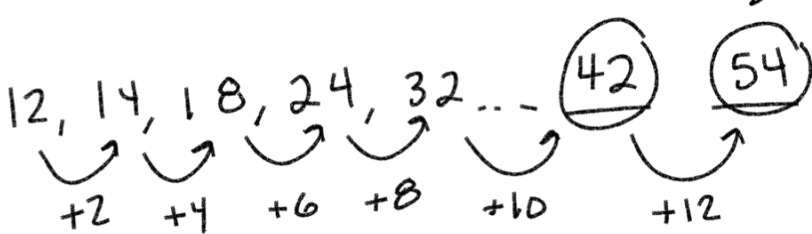


S-G Geometry 6/13 Session 1

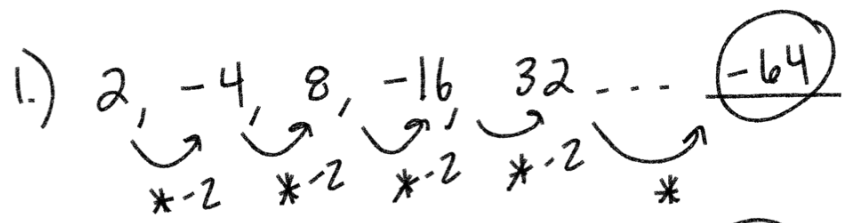
Patterns



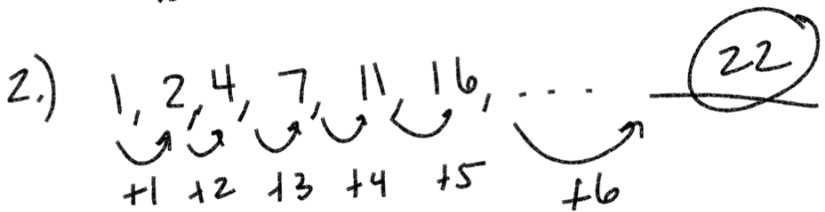
Describe: Adding consecutive even numbers



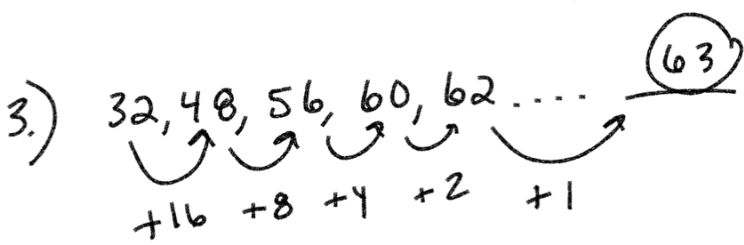
Describe: Doubles, change sign or $\times -2$



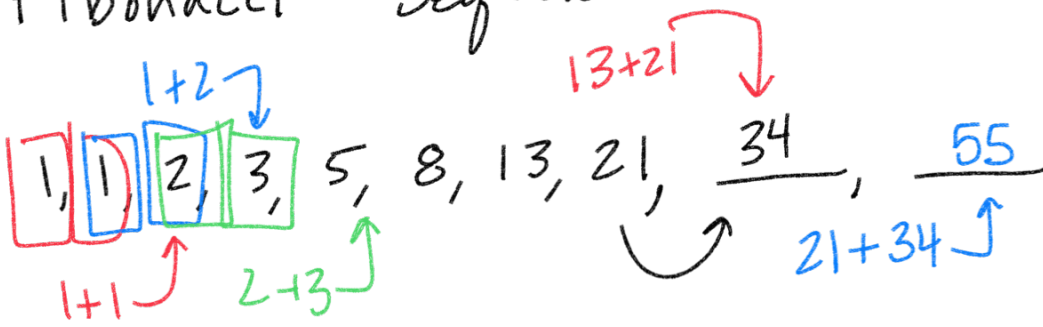
Describe: Add consecutive whole numbers



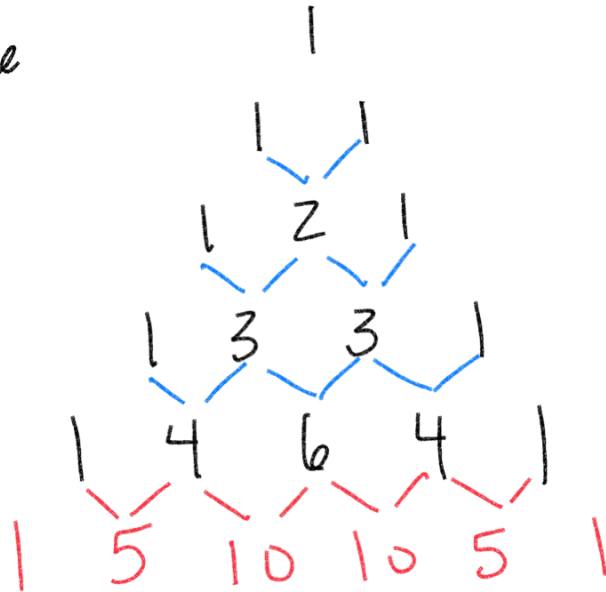
Describe: Adding... interval is being halved each time.



Fibonacci Sequence



Pascal's Triangle



Challenge

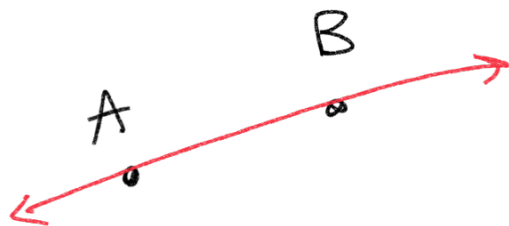
OA, UEA, EEA, UA, —, —, —

1-2 Points, Lines, and Planes

Point • 0 dimensions singularity

Line - made up of 2 points

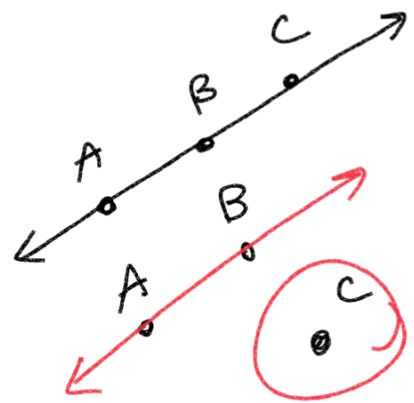
1 dimension



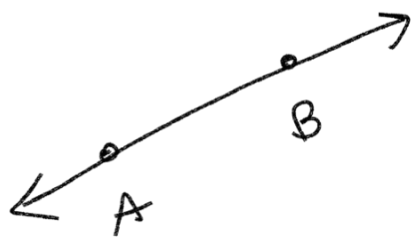
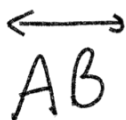
Plane - Made of either

1.) 3 noncollinear points
or

2.) A line and one noncollinear point

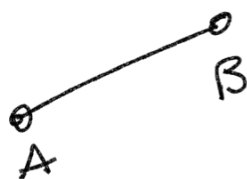


Line



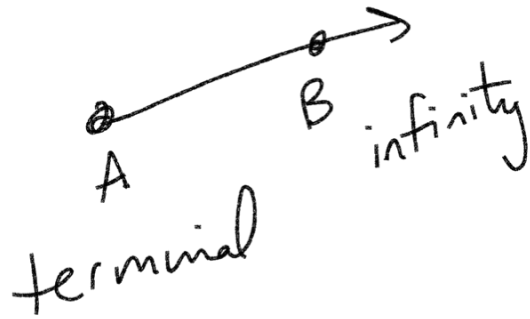
arrow means
the line
extends to
infinity in
both sides

Segment
 \overline{AB}

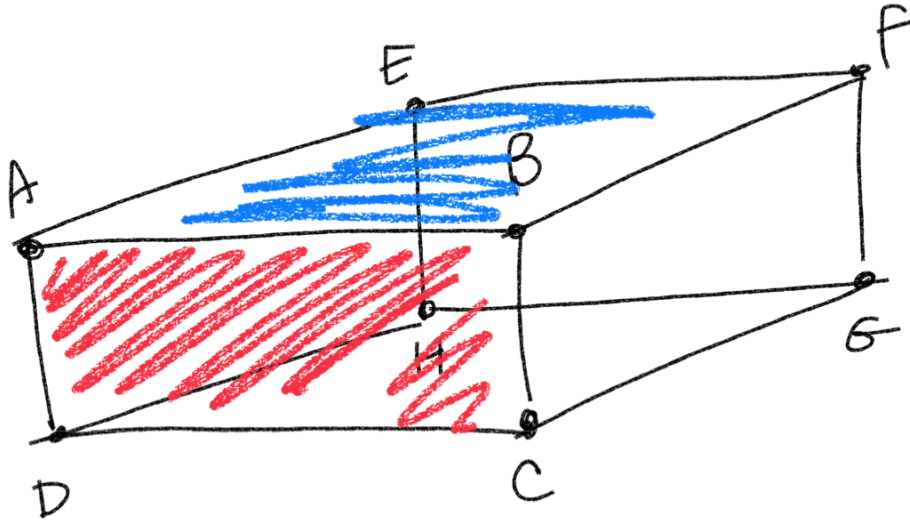


terminal in
both sides

Ray
 \overrightarrow{AB}



Plane
 ABC
 BCD
 ADC



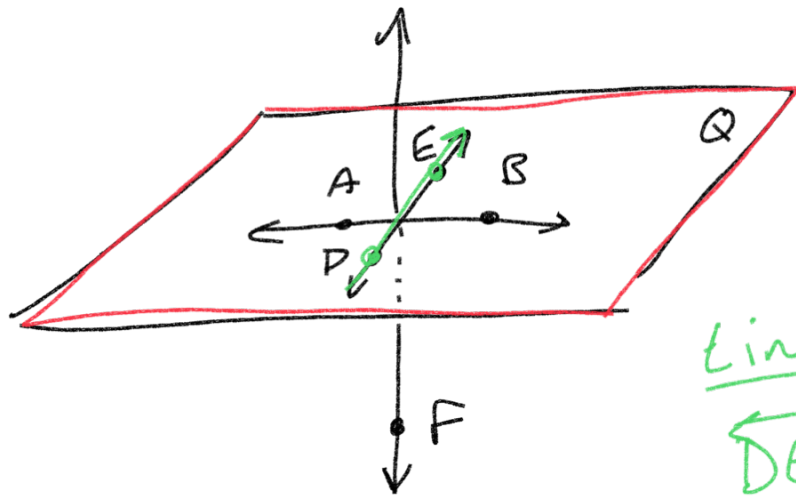
Plane
 EAB
 EFB
 BAE

Plane Q

Plane

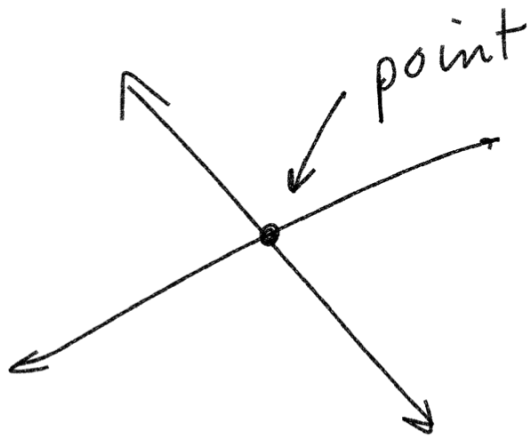
3 noncollinear
 points
 or

A line and a
 noncollinear



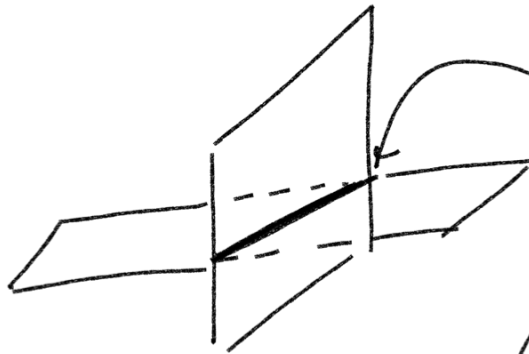
Plane
 DAB
 ADE

Line
 \overleftrightarrow{DE}
 \overleftrightarrow{ED}



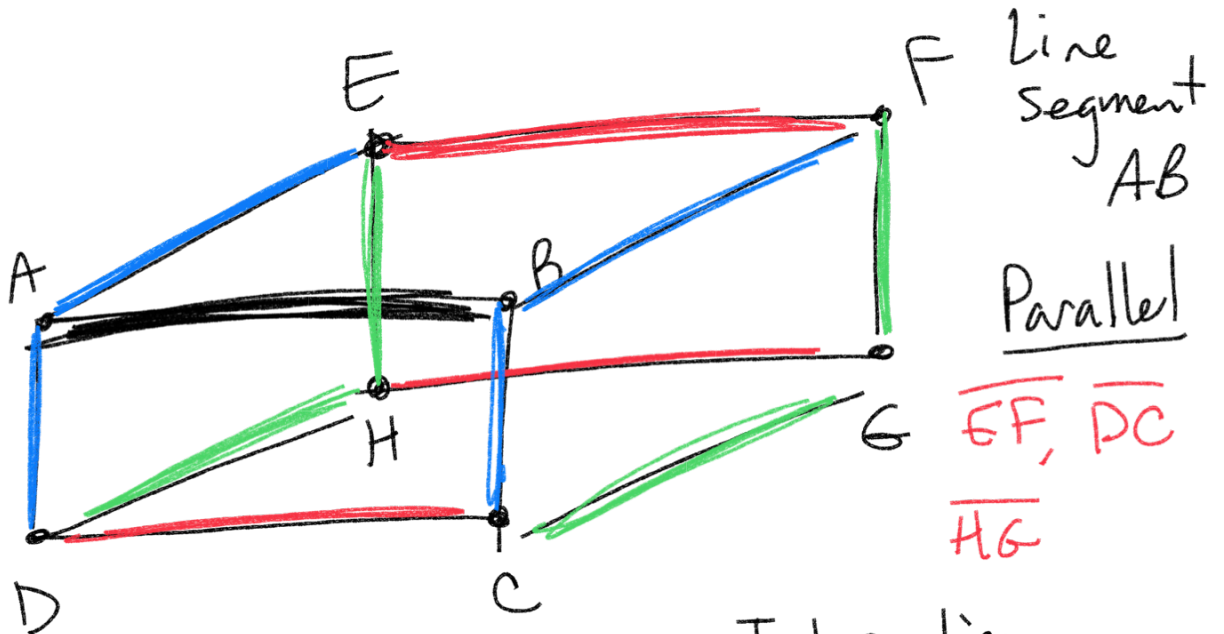
Intersection of
2 lines

point



Intersection of
2 planes

Line



Line
Segment
AB

Parallel

$\overline{EF}, \overline{DC}$

\overline{HG}

Parallel lines

- same slope
- exist on same plane
- no intersection

Intersecting
perpendicular

$\overline{AE}, \overline{BF}, \overline{AD}, \overline{BC}$

skew (never touch but
not on same plane)

$\overline{FG}, \overline{CG}, \overline{DH}, \overline{EH}$

