

Good afternoon: Please respond to this prompt in your notebooks:
(please sit in same groups as yesterday--will finish car/boxes task)

*Pick out a passage from Lockhart's essay that stood out to you.
Do you agree or disagree with his assertions in your excerpt? What
made this passage stand out to you? Answer in a paragraph.*

Reminders

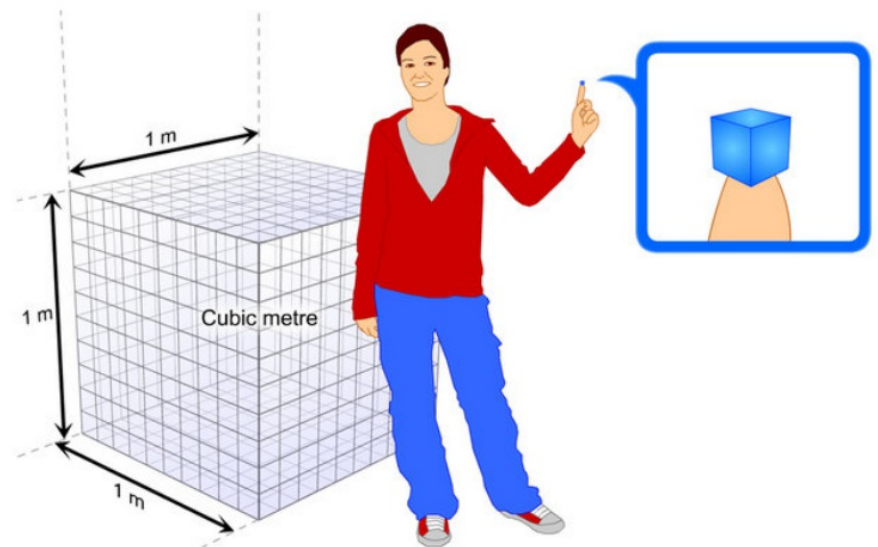
ALWAYS bring your
text and notebook to class
don't ask to go to your locker
after the bell!

Finishing from last time...

How many boxes fit in the trunk?



$$100 \text{ cm} = 1 \text{ m}$$



Were you right? Let's find out...

First Quarter Learning Targets:

DO NOT LOSE THIS! Keep it with your syllabus

Honors Geometry – 1st Quarter Assessment Grades

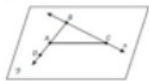
Name:

Key: CO – Congruence

GPE – Expressing Geometric Properties with Equations

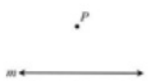
Most recent grade entered in Powerschool/ Two consecutive scores of 3 or higher required. Each standard is assessed in class at least twice. Re-taking an assessment requires proof of completed homework. Full standards on web at: <http://j.mp/tenngeometry>

CO-A1a: Point/Lines/Planes: I know precise definition of line segment, based on the undefined notions of point, line, and distance along a line.



Date					
Score					

CO-A1b: Types of Lines: I know the precise definitions of parallel and perpendicular lines based on the undefined notions of point, line, and distance along a line.



Date					
Score					

CO-A1c: Angles and Circles: I know precise definitions of angles and circles, based on the undefined notions of point, line, and distance along a line, and distance around a circular arc.



Date					
Score					

CO-D12a: Constructions 1: I can make formal geometric constructions including: copying segment and angle, midpoint, perpendicular bisector, and angle bisector.



Date					
Score					

GPE-B6a: Partitioning a Segment: I can find the point on a directed line segment between two given points

1-2-3 of Geometry

(NOTES)

Undefined terms:

1 location in Space: Point

2 locations in space: line

3 locations Space: plane.

a flat infinite ~~space~~ surface
where geometry happens.

Turn to p. 3 in your textbook and complete #1-7. Name each figure in words, and if you can, give a symbolic representation of each. Check with your table.

1 *point* Q Q

2 *Ray* ~~\overrightarrow{FGH}~~ \overrightarrow{FG} \overrightarrow{FH}

3 *line* \overleftrightarrow{XZ} \overleftrightarrow{YZ} \overleftrightarrow{ZY}

4 *segment* \overline{DE}

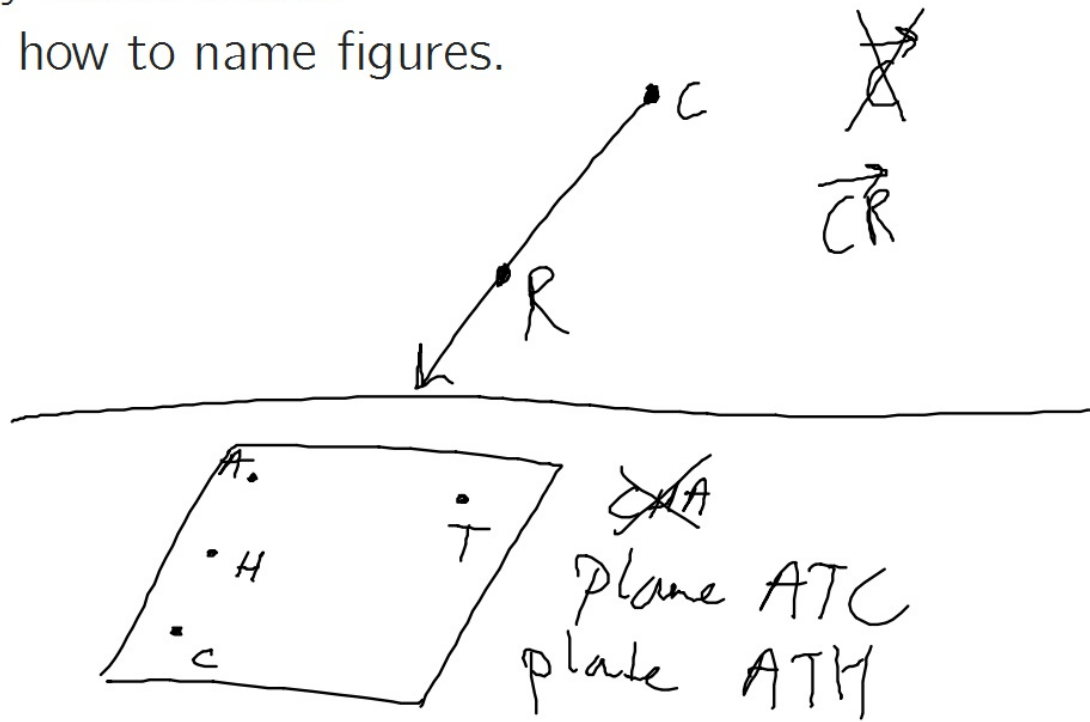
5 *Angle* $\angle A$

6 *Angle* $\angle RST$ $\angle S$ $\angle TSR$

7 *Plane* $?$ $?$ $?$

P. 4: Very useful chart!!

Tells you how to name figures.



Tell your face partner something new
you learned so far today



Enter your PIN into the egg:

Which of these is NOT an undefined term of geometry?

A: point

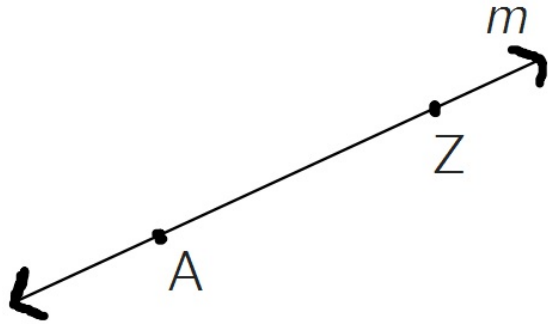
B: angle

C: plane

D: line

E: these are all undefined terms

Which of these is NOT a valid name for this line?



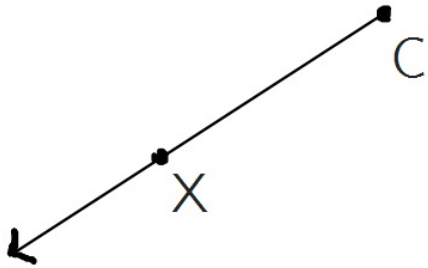
A: \overleftrightarrow{AZ}

B: \overleftrightarrow{ZA}

C: m

D: These are all valid names

Which of these is a valid name for this ray?



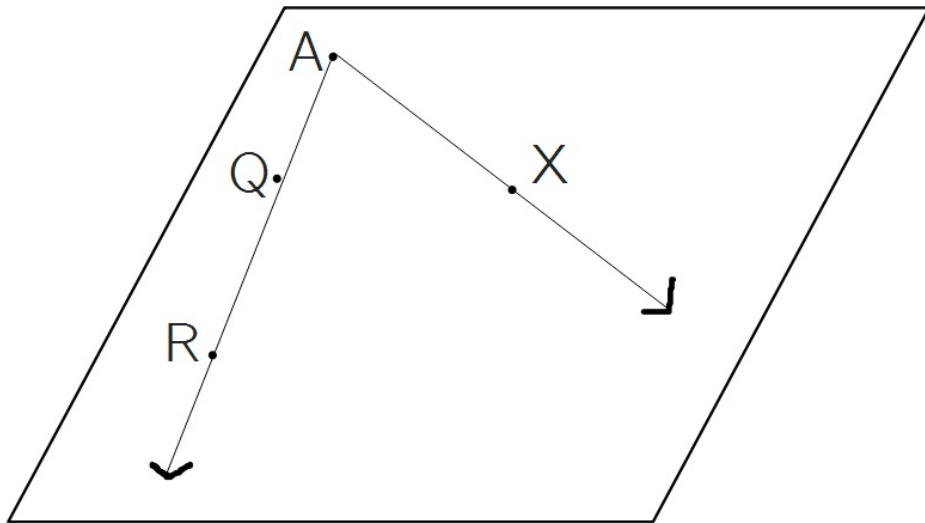
A: \overrightarrow{XC}

B: \overrightarrow{CX}

C: \overrightarrow{C}

D: None of these is valid

Which of these is a valid name for this plane?



A: Plane AQR

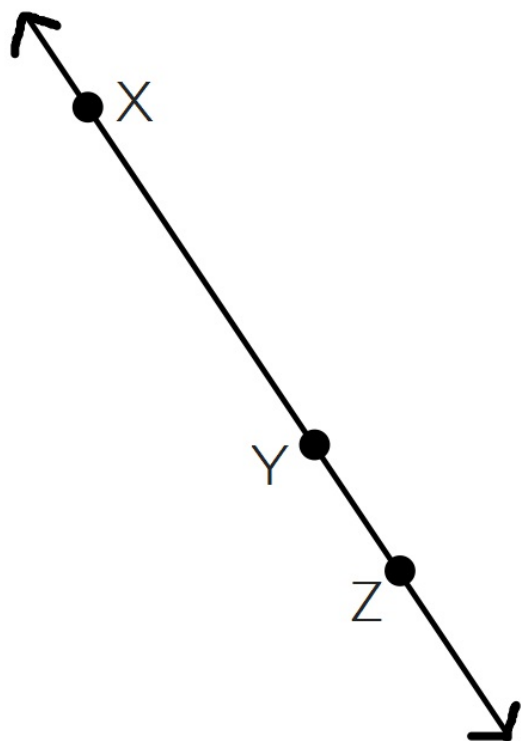
B: Plane X

C: Plane Q

D: Plane RXQ

E: None of these is valid

Which of these is NOT a valid name for this line?



A: \overleftrightarrow{XYZ}

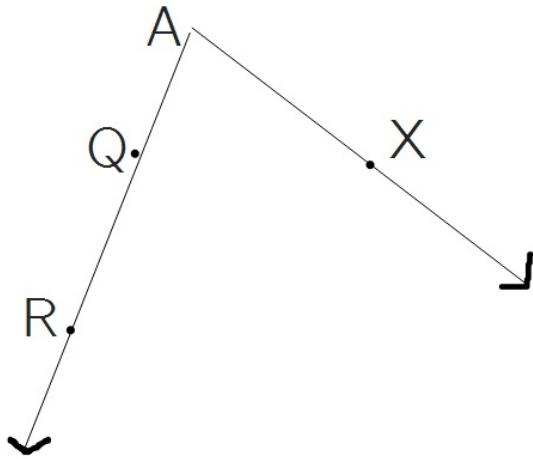
B: \overleftrightarrow{ZY}

C: \overleftrightarrow{XZ}

D: \overleftrightarrow{XY}

E: \overleftrightarrow{YZ}

Which of these is NOT a valid name for this angle?



A: $\angle RAX$

B: $\angle A$

C: $\angle XAQ$

D: $\angle XQA$

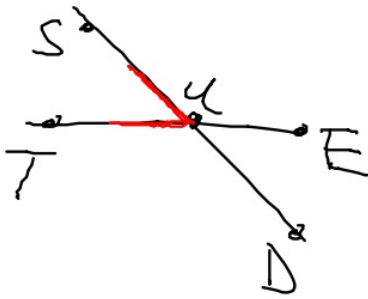
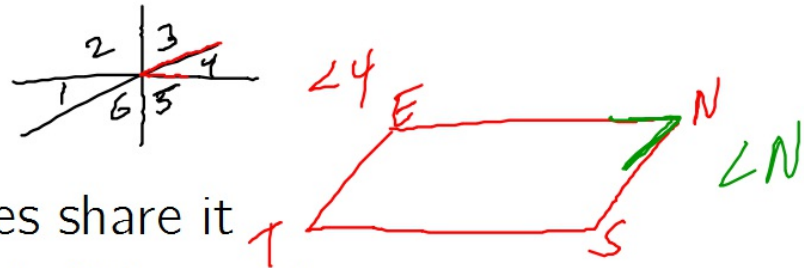
E: These are all valid names

Angles: one of the simplest, but most important geometric forms



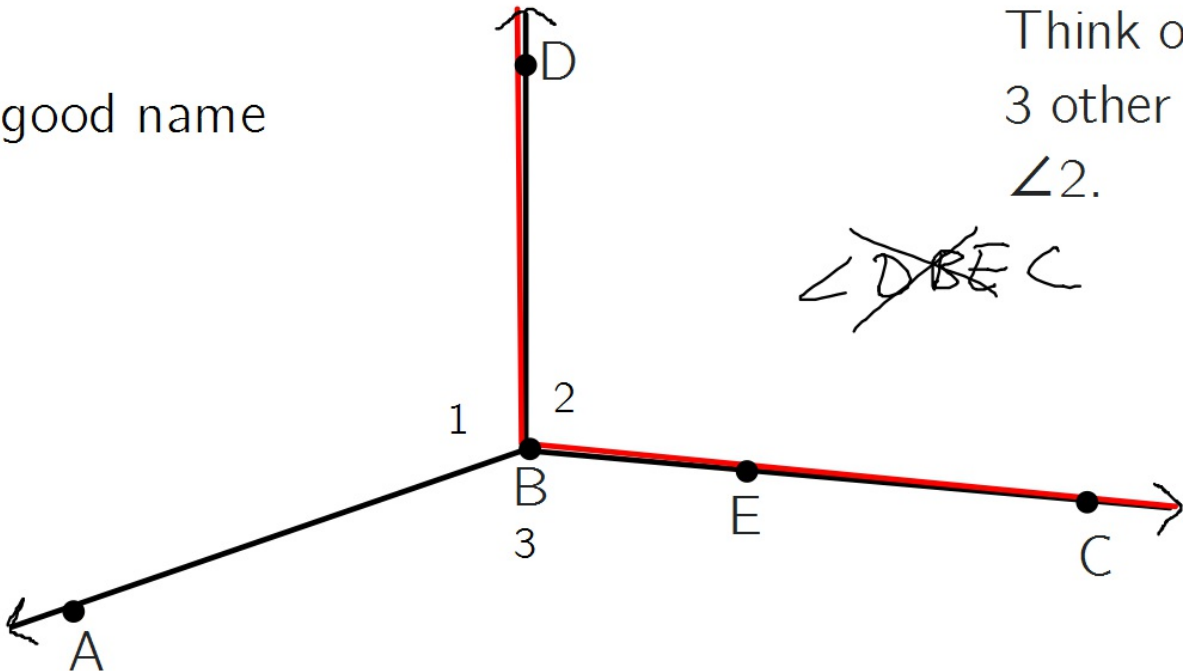
How to name angles: p 5

- use a number label if provided
- use the vertex if no other angles share it
- use 3 points: one on either 'leg' of the angle and the vertex in the middle



$\angle SUT$ or $\angle TUS$

Is $\angle B$ a good name for $\angle 2$?



Think of at least 3 other names for $\angle 2$.

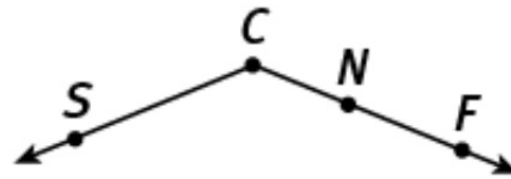
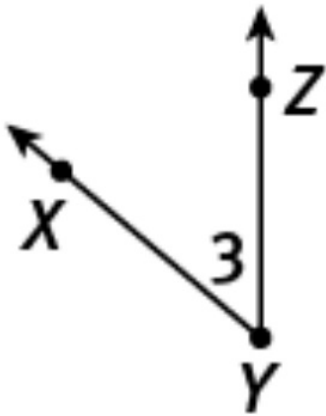
~~$\angle DBEC$~~

- $\angle DBE$
- $\angle DBC$
- $\angle CBD$
- $\angle EBD$

What do you notice about all the names?

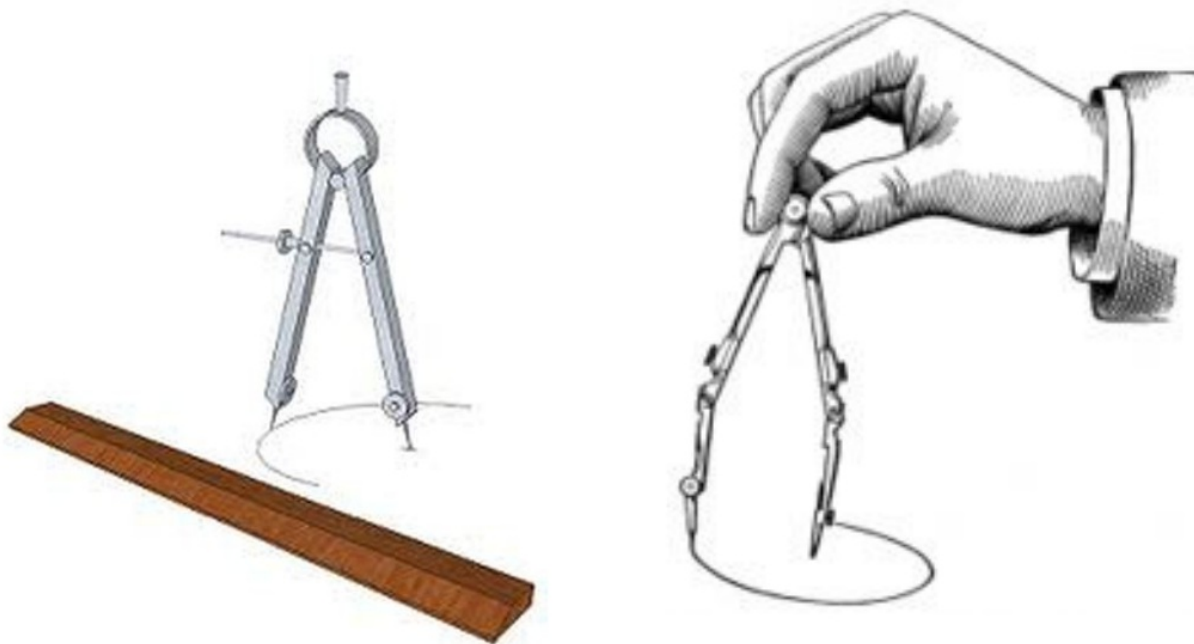
Now do:

p. 6: Try These A: Check with your elbow partner to see if they understand.



Our first construction!

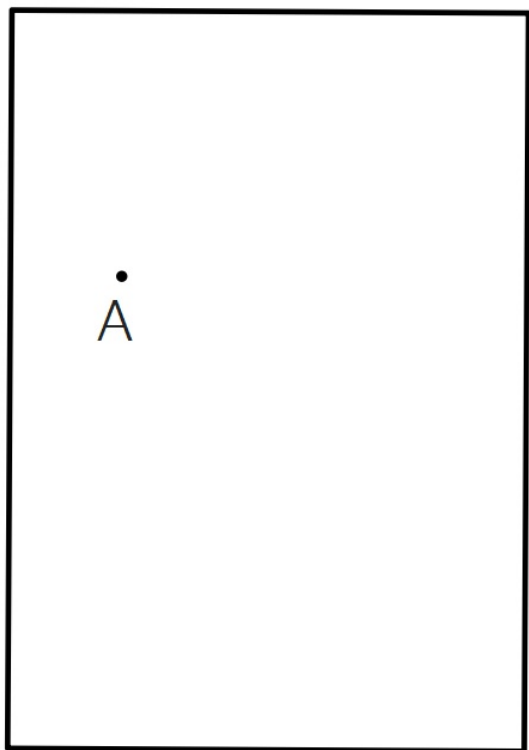
The tools of any geometer: a compass and a straight edge



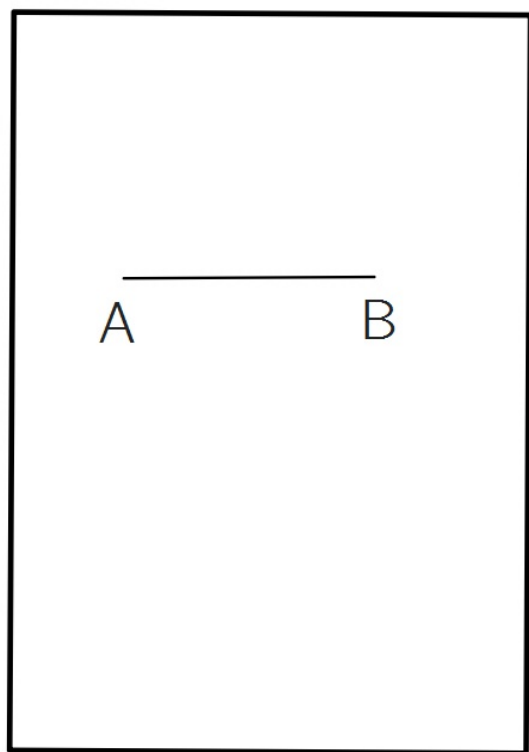
I LEARNED IN HIGH SCHOOL WHAT
GEOMETERS DISCOVERED LONG AGO:



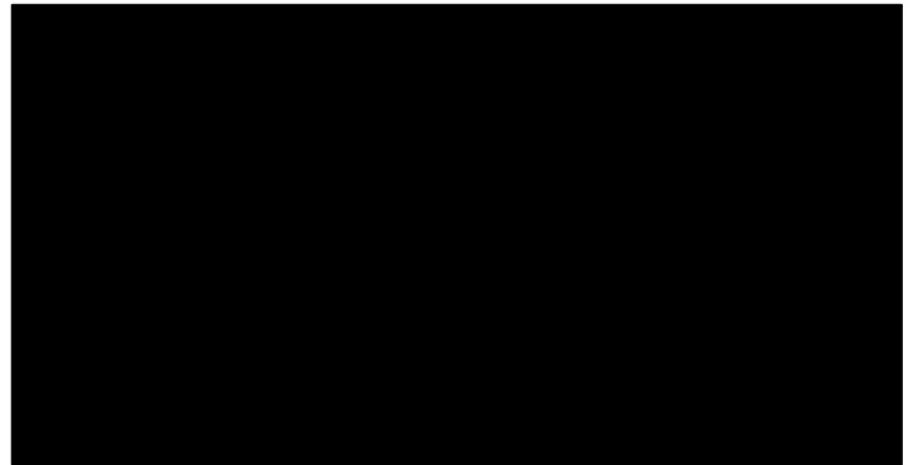
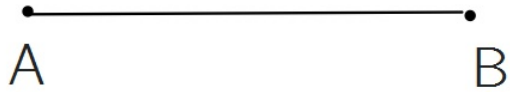
On the next blank page in your notebook,
place a point and call it A.



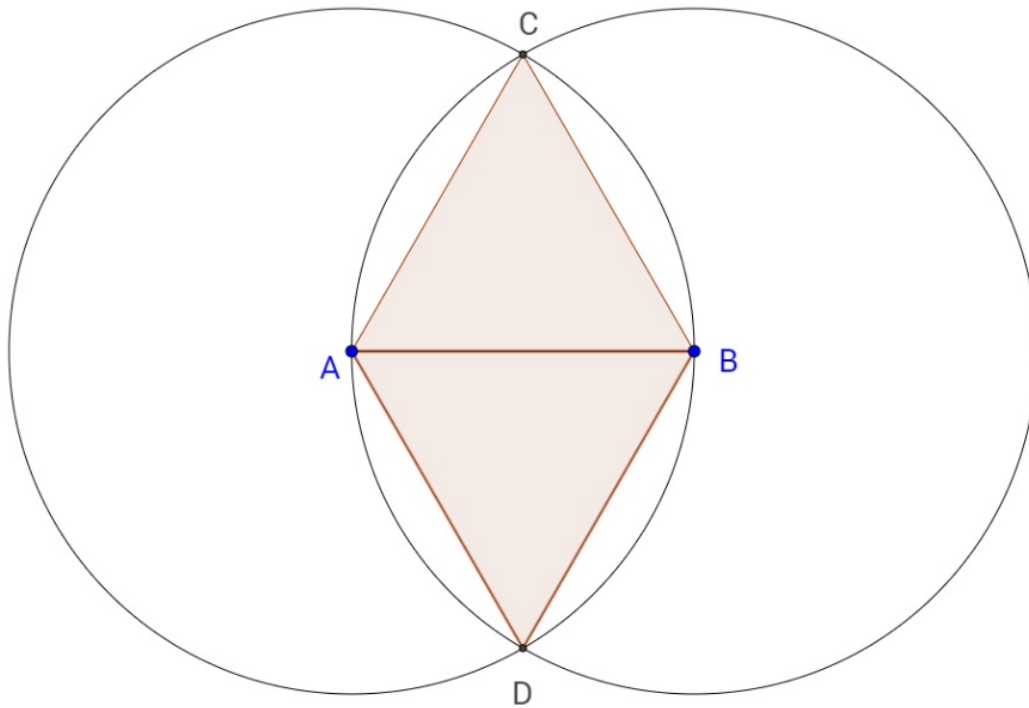
Mark another point B. Use your straight edge and make segment AB.



Compass: needle on A, pencil on B; mark a wide arc above (or below, wherever you have room) segment AB.



Want another one? If you have room, sweep arcs on the opposite side of AB and now you have two adjacent equilateral triangles.



Homework:

p. 11 #1-4, 7, 9 (CO-A1a)

