

QUIZ DATES: _____ & _____

Math 2 – Honors

Unit 5 – Triangles & Similarity

Lesson 1 → Introduction to Key Vocabulary

TEST DATE: _____

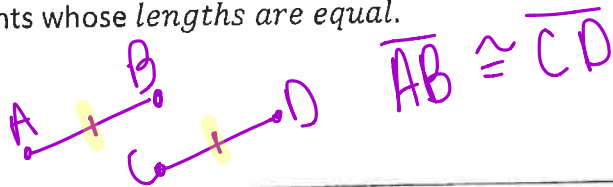
Name _____

Date _____ Pd _____

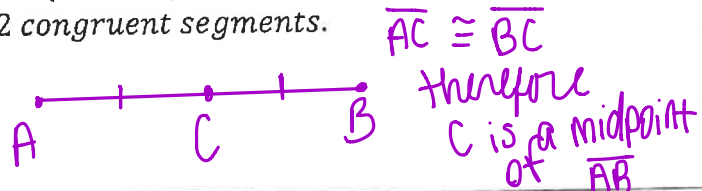
Picture This.....draw an example in each box.

Congruent Segments:

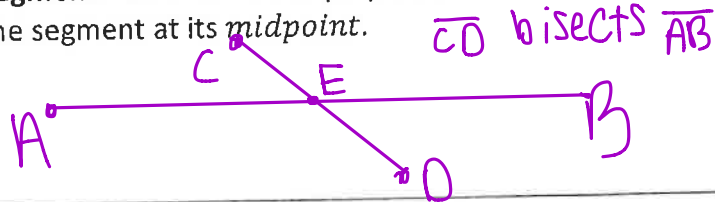
Segments whose lengths are equal.



Midpoint: A point that divides a segment into 2 congruent segments.

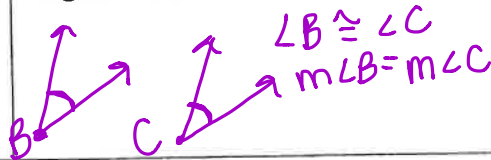


Segment Bisector: A line (or part of a line) that intersects the segment at its midpoint.

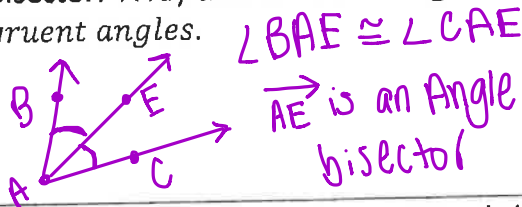


Congruent Angles:

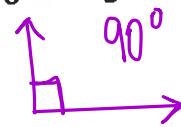
Angles whose measures are equal.



Angle Bisector: A ray that divides an angle into 2 congruent angles.

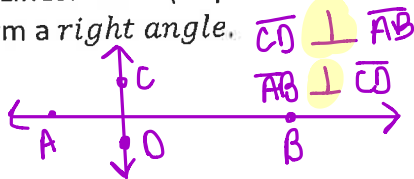


Right Angle: Angle whose measure is 90°

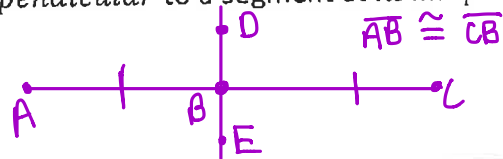


THEOREM: All right angles are congruent.

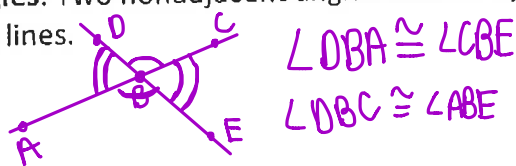
Perpendicular Lines: Lines (or parts of lines) that intersect to form a right angle.



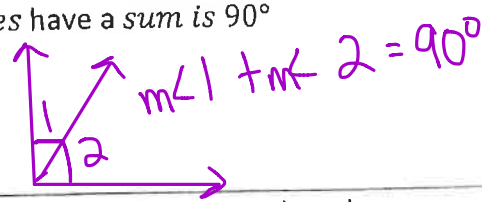
Perpendicular Bisector: Line (or part of a line) that is perpendicular to a segment at its midpoint.



Vertical angles: Two nonadjacent angles formed by 2 intersecting lines.

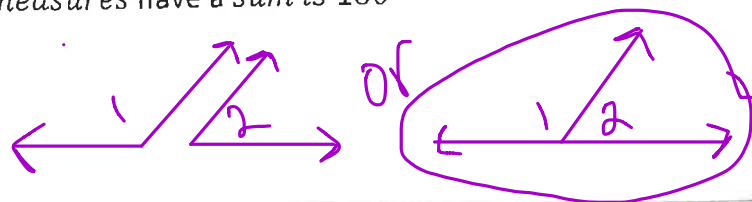


Complementary angles: Two angles whose measures have a sum is 90°



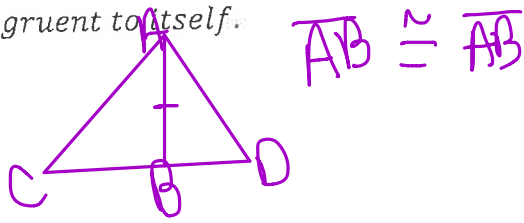
THEOREM: Vertical Angles are congruent.

Supplementary angles: Two angles whose measures have a sum is 180°



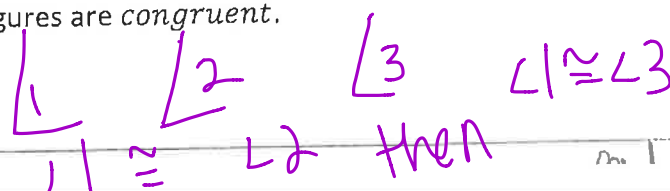
Linear pair: Two adjacent angles whose non-common sides are opposite rays.

Reflexive Property of Congruence: A geometric figure is congruent to itself.



POSTULATE: Linear Pairs are supplementary.

Transitive Property of Congruence: If one geometric figure is congruent to a second geometric figure and the second geometric figure is congruent to a third geometric figure, then the first and third figures are congruent.



$$\angle 2 \cong \angle 3$$

I say (or see) ...	You say.../mean?	By...
\cong Segments	equal lengths	by Definition of Congruent segment
Midpoint	2 congruent segments	Def of midpoint
Segment Bisector	2 \cong segments / midpoint	Def of segment bisector
\cong Angles (\angle 's)	= measures	Def of $\cong \angle$'s
Angle Bisector	2 $\cong \angle$'s	Def of \angle bisector
Perpendicular (\perp) Lines	right angle	Def of \perp lines
Right Angle	$m\angle = 90^\circ$	Def of right \angle
2 Right Angles	$\cong \angle$'s	All right \angle 's congruent
Perpendicular Bisector	① midpoint + \cong segments ② right angle	Def of \perp bisector
Vertical Angles	$\cong \angle$'s	Def of vertical \angle 's vert \angle 's \cong
Complementary Angles	$m\angle 1 + m\angle 2 = 90^\circ$	Def of comp. \angle 's
Supplementary Angles	$m\angle 1 + m\angle 2 = 180^\circ$	Def of Supp. \angle 's
Linear Pair	$m\angle 1 + m\angle 2 = 180^\circ$	linear pairs are Supplementary
Shared Angle	$\angle \cong$ itself	Reflexive Prop of \cong
Shared Side	side \cong itself	
$\angle A \cong \angle B$ and $\angle B \cong \angle C$	$\angle A \cong \angle C$	Transitive prop \cong
$\triangle ABC$ has a right angle	$\angle ABC$ is right	def of right \angle

$$\overline{TO} \cong \overline{AD}$$

↓
• • • *Def of*
≅ of
segments

length $TO =$ length AD

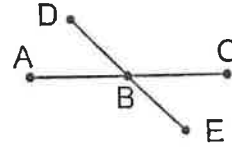
$$\angle 4 \cong \angle 5$$

• • •

I is the midpoint of \overline{MD}



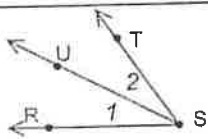
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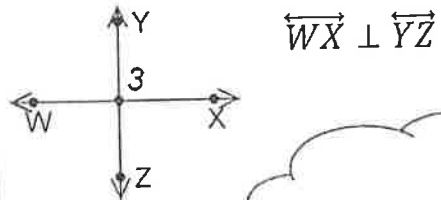
\overline{DE} bisects \overline{AC}

• • •

\overline{SU} bisects $\angle RST$

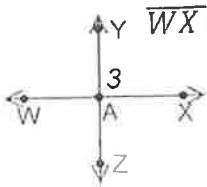


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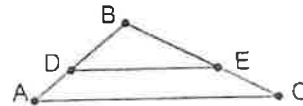
• • •

\overline{WX} is the perpendicular bisector of \overline{YZ}



• • •

OR



What do you know about $\angle B$?

• • •