Name:

Class:

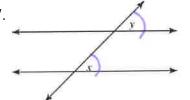
Math 2: Unit 7 Review Sheet

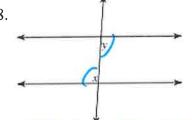
Part 1: Draw the following pictures. Make sure to label all points.

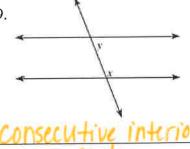
1. <i>H</i> is the midpoint of \overline{JB}	2. \overline{PN} is an angle bisector of $\angle KMO$
J H B	PMDON
3. \overline{WE} bisects \overline{KL}	4. $\angle TER$ and $\angle BER$ are complementary
K	T R
5. ΔFOB has a midsegment \overline{TS}	$6. \overrightarrow{AB}$ and \overrightarrow{CD} are parallel.
TAS	CBB

Part 2: Angle pairs and their relationships

Determine the relationship between the angles in the picture

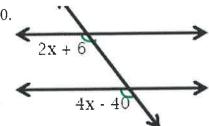






Solve for X using the angle pair relationships

10.

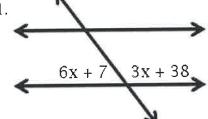


2X+6=4x-40

$$46 = 2X$$

$$x =$$
 (23)

11.



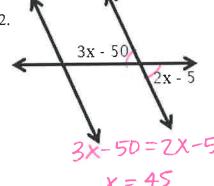
6X+7+3X+38=180

$$9x + 45 = 180$$

 $9x = 135$

$$x = (15)$$

12.



$$\chi = 45$$

Part 3: Vocabulary

Know the following vocab words (including definition and picture)

- LINEAR PAIR
- **CONGRUENT SEGMENTS**
- RIGHT TRIANGLES
- **VERTICAL ANGLES**
- REFLEXIVE PROPERTY OF CONGRUENCE
- TRANSITIVE PROPERTY OF CONGRUENCE
- **MIDSEGMENT**
- **PARALLEL**
- **COMPLEMENTARY ANGLES**
- PERPENDICULAR BISECTOR
- **CONGRUENT SEGMENTS**
- **MIDPOINT**
- SUPPLEMENTARY ANGLES
- **CONGRUENT ANGLES**
- **PERPENDICULAR**
- **SEGMENT BISECTOR**

Part 5: Triangle Sum Theorem

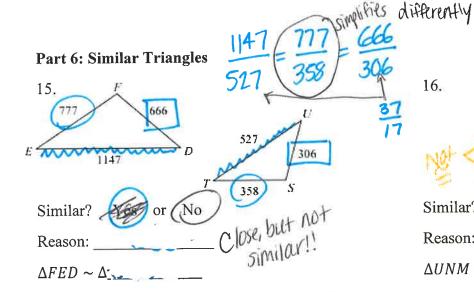
Solve for $\underline{\mathbf{x}}$.

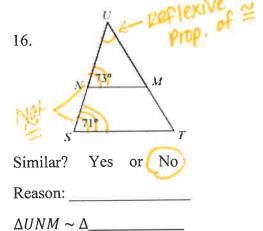
14. 13. (8x -1)° $(3x + 4)^{\circ}$ 14x+12=180 14x=168 x = 12

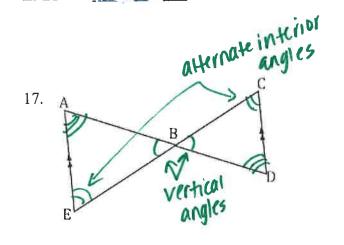
15. Find the measure of angle A

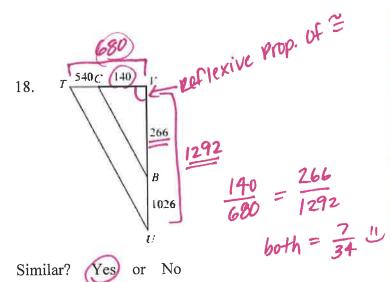
4x+10° 2x+36x=144

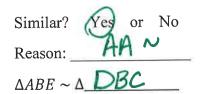
X=12











Reason:
$$SAS \sim \Delta VTU$$

Part 7: Midsegment of a Triangle. Find x in each of the followir-

