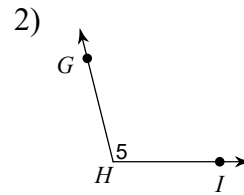
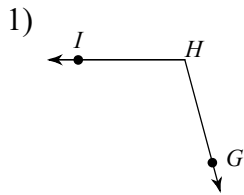


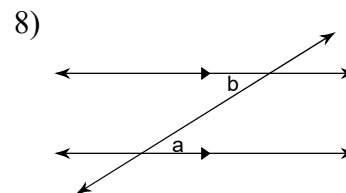
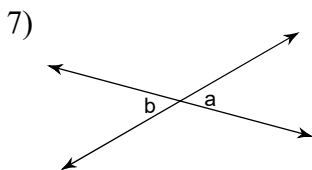
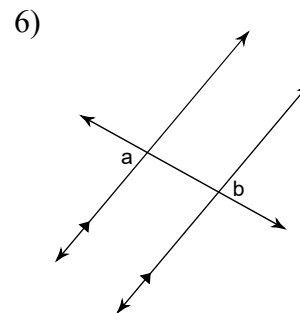
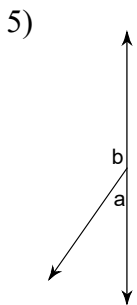
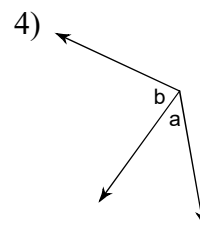
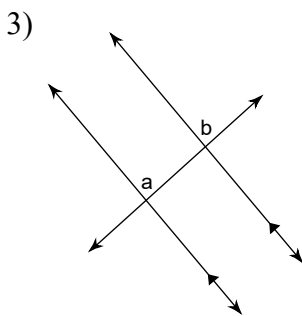
Fall 2020 Final Exam Review

Name the vertex and sides of the angle.

Name the angle in four different ways.



For each figure, name the *a* & *b* angle relationship using the following terms: corresponding, vertical, adjacent, linear pair, alternate interior, or alternate exterior. If more than one term applies, put both.



Complete each congruence statement by naming the corresponding angle or side.

9) $\triangle QPR \cong \triangle QJI$

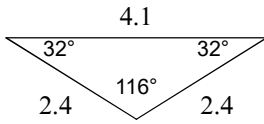
10) $\triangle ABC \cong \triangle AEF$

$\overline{PR} \cong ?$

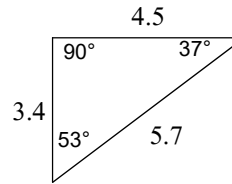
$\angle CAB \cong ?$

Classify each triangle as acute, obtuse, or right, and ALSO as scalene, isosceles, or equilateral.

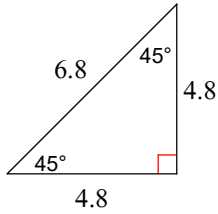
11)



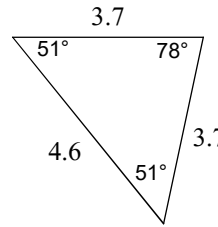
12)



13)

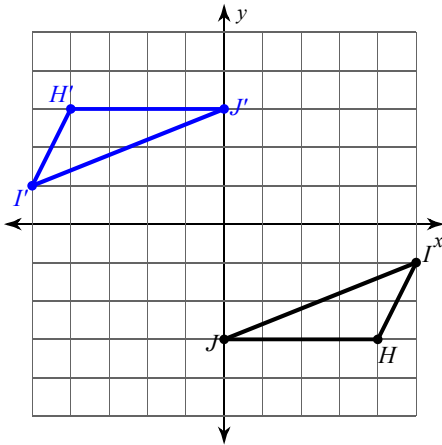


14)

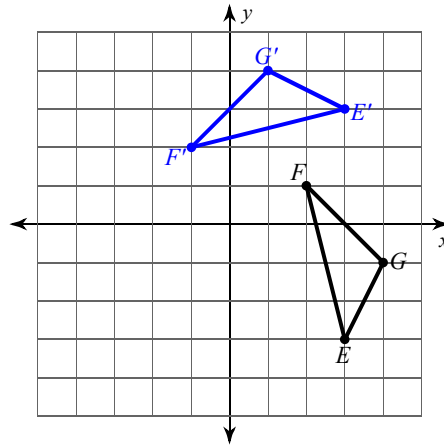


Describe (in words) each transformation from the pre-image to the image.

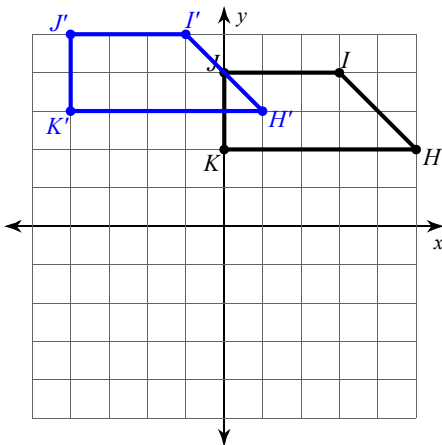
15)



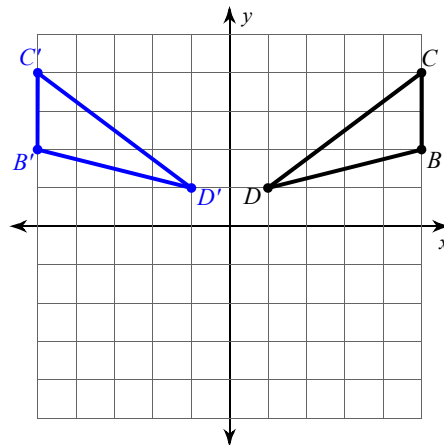
16)



17)



18)

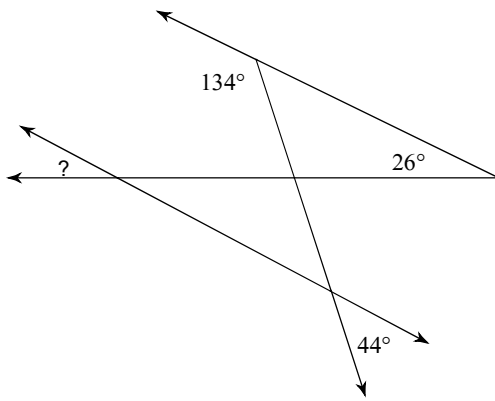


19) What must be true for two figures to be similar?

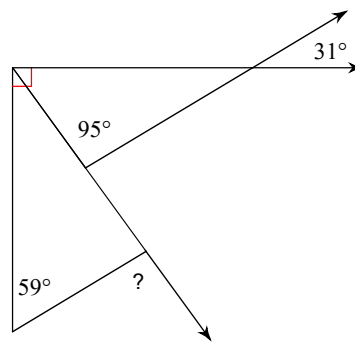
20) What is the term for two figures that have the same shape and the same size?

Find the measure of each angle indicated. **BOX** your answers.

21)

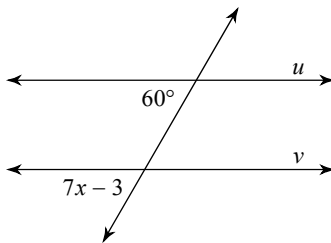


22)

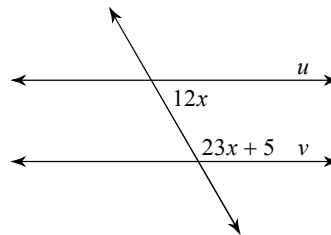


For each figure, find the measure of x that makes lines u and v parallel. **BOX** your answers.

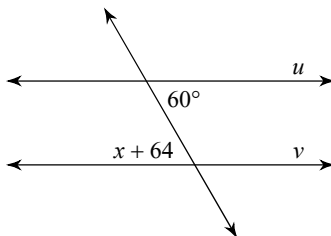
23)



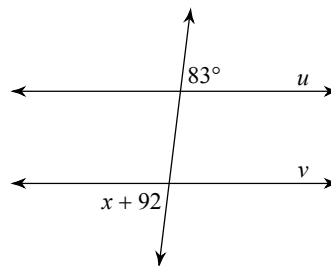
24)



25)



26)

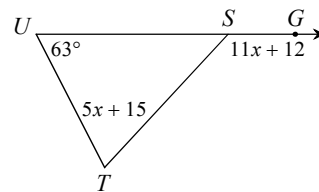


Write the **SLOPE-INTERCEPT** form of the equation of the line described. **BOX** your answer.

27) through: $(-2, 4)$ and $(3, 1)$

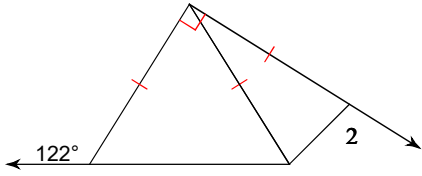
Find the measure of the angle indicated. **BOX** your answer.

28) Find $m\angle GST$.

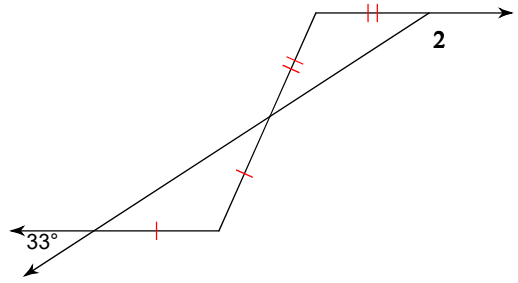


For each figure, find the value of x . **BOX** your answers.

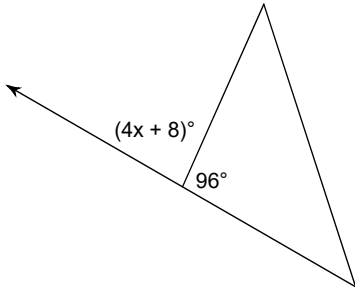
29) $m\angle 2 = x + 109$



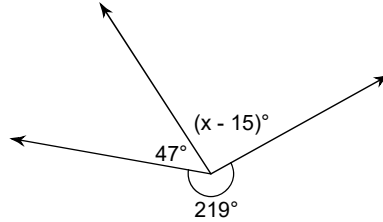
30) $m\angle 2 = x + 155$



31)

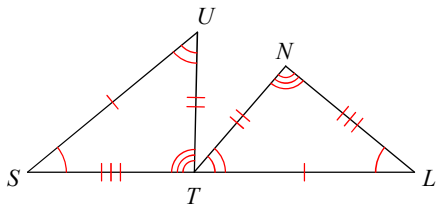


32)

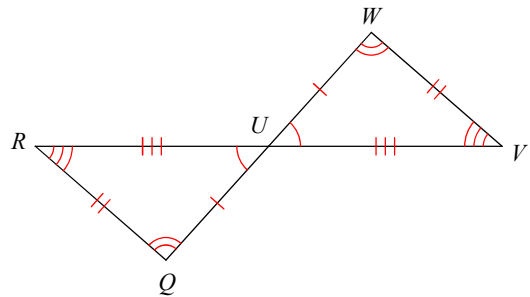


For each pair of triangles, write a statement indicating that the triangles are congruent.

33)

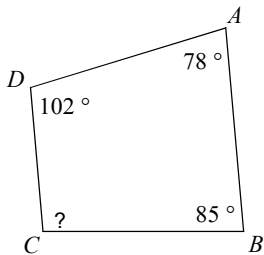


34)

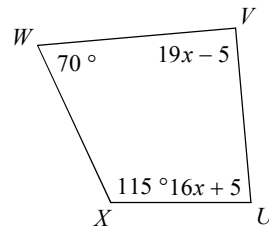


Find the measure of each angle indicated. **BOX** your answers.

35)



36) $m\angle V$



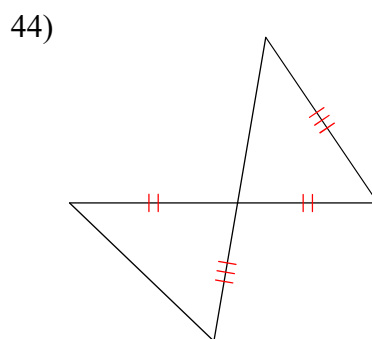
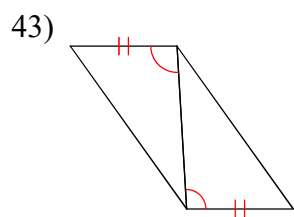
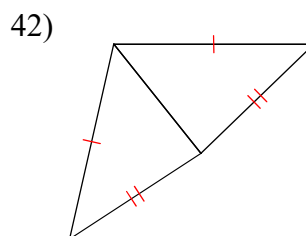
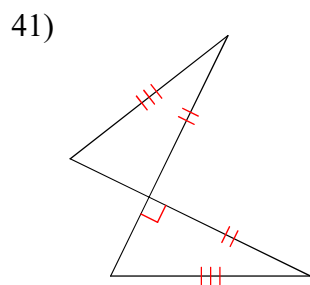
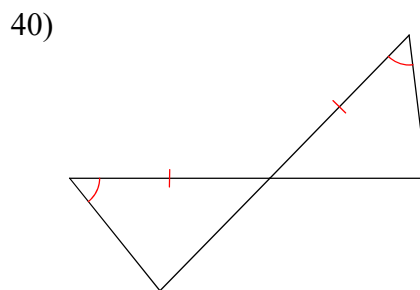
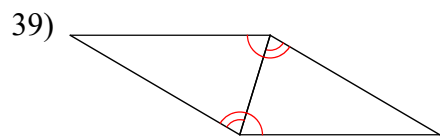
Find the midpoint of the line segment with the given endpoints.

37) $(3, 2)$, $(1, -10)$

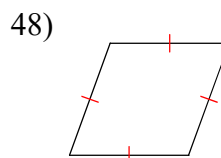
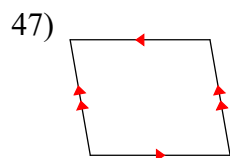
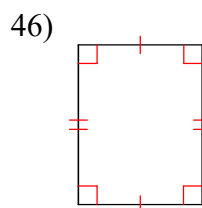
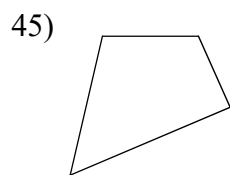
Find the distance between the pair of points. Leave your answer as a simplified radical.

38) $(2, -3)$, $(-7, 3)$

For each figure, if the two triangles can be proven congruent, tell which postulate or theorem can be used (SSS, SAS, ASA, AAS, HL). Otherwise, just write "No".



Based on the markings shown, state all possible names for each figure.



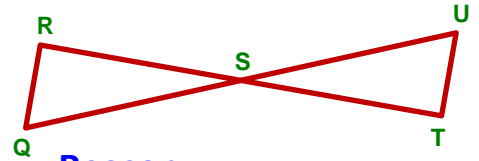
49) What term refers to the set of all points?

50) Write a conditional statement and its converse.

Practice Geometric Proofs for Fall Final Exam

Given: $\overline{QR} \parallel \overline{UT}$ and $\overline{QR} \cong \overline{UT}$

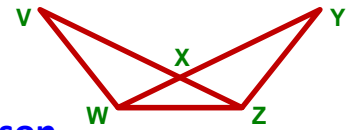
Prove: $\overline{QS} \cong \overline{US}$



Step	Statement	Step	Reason

Given: $\overline{VX} \cong \overline{YX}$ and $\angle XWZ \cong \angle XZW$

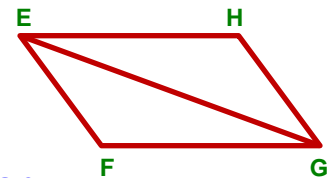
Prove: $\overline{VW} \cong \overline{YZ}$



Step	Statement	Step	Reason

Given: $\overline{EH} \parallel \overline{GF}$ and $\angle F \cong \angle H$

Prove: $\overline{EF} \parallel \overline{GH}$



Step	Statement	Step	Reason