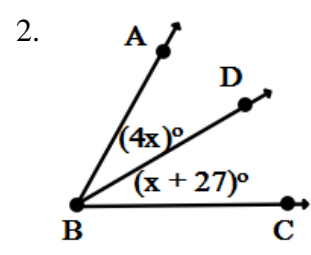
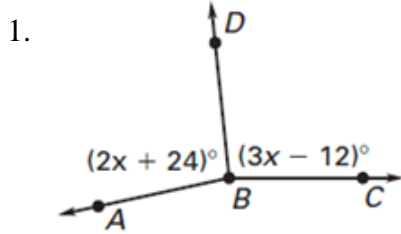


UNIT 1 REVIEW GUIDE

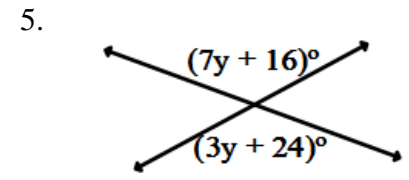
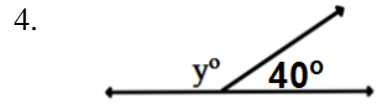
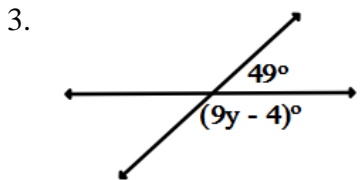
Name: _____

Period: _____ Date: _____

For Questions 1 - 2, BD bisects $\angle ABC$. Find the value of x.

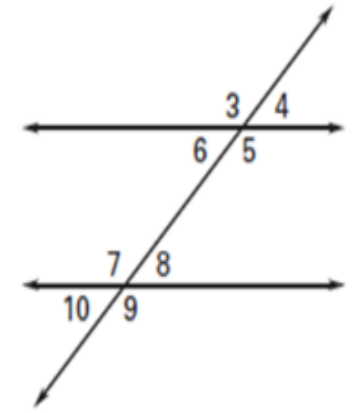


Solve for the missing variable:

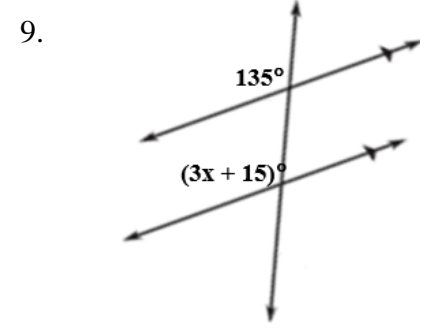
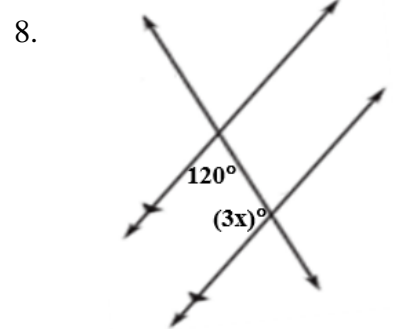
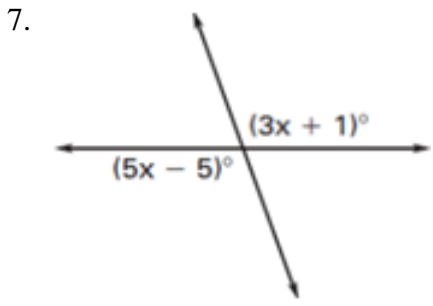


6. Identify the type of angle:

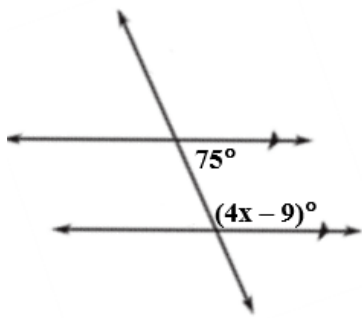
- a. $\angle 3$ and $\angle 5$ _____
- b. $\angle 3$ and $\angle 9$ _____
- c. $\angle 5$ and $\angle 8$ _____
- d. $\angle 8$ and $\angle 6$ _____
- e. $\angle 7$ and $\angle 8$ _____
- f. $\angle 3$ and $\angle 7$ _____



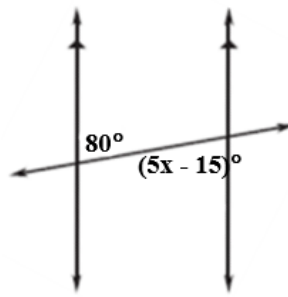
Solve for the missing variable:



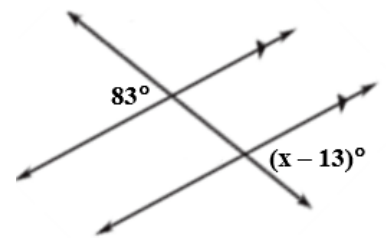
10.



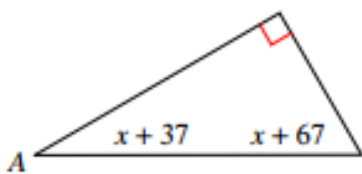
11.



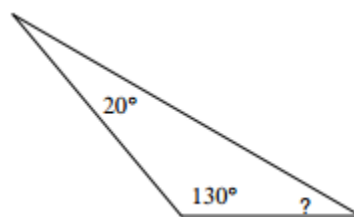
12.



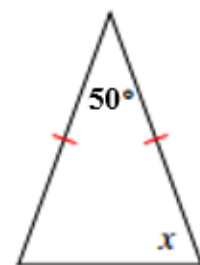
13.



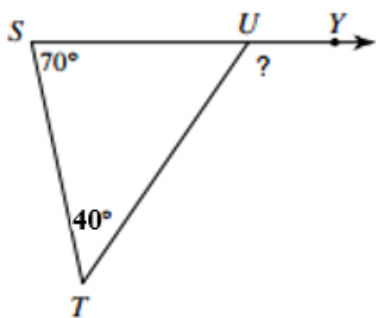
14.



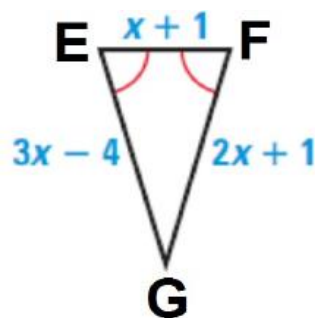
15.



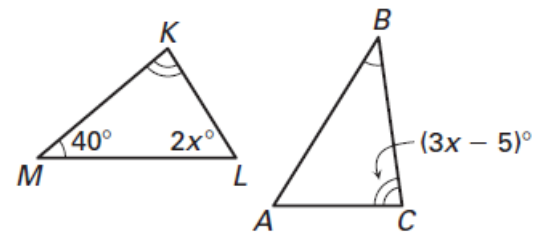
16.



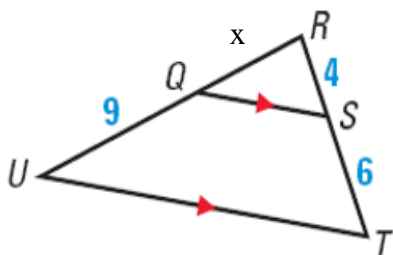
17.



18.



19.



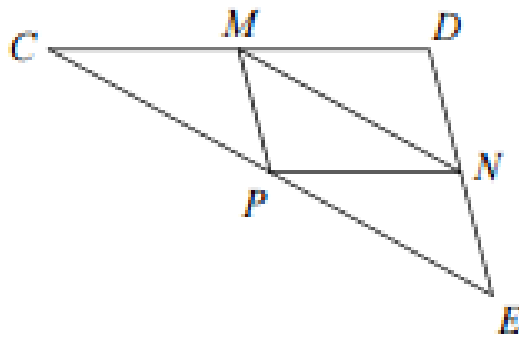
20. MP, MN, and PN are midsegments of $\triangle CDE$. $MP = 2$, $CD = 8$, and $PE = 5$

PN // _____

MN = _____

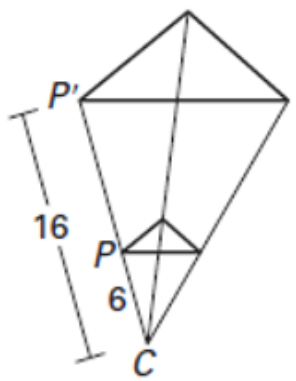
DE = _____

PN = _____



21. Identify the dilation and the scale factor of the following:

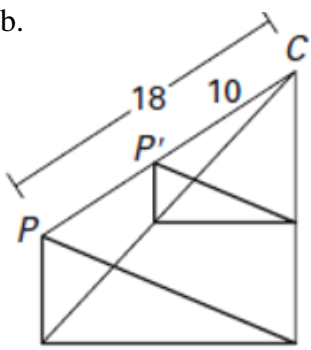
a.



Dilation: _____

Scale Factor: _____

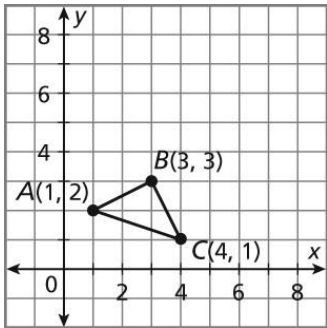
b.



Dilation: _____

Scale Factor: _____

22. Given the following has a scale factor of $k = 2$, what would the new coordinates be?

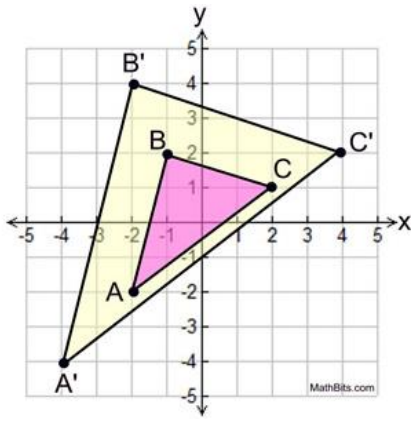


A' _____

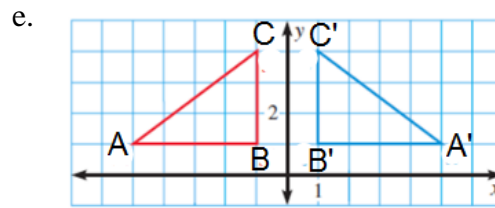
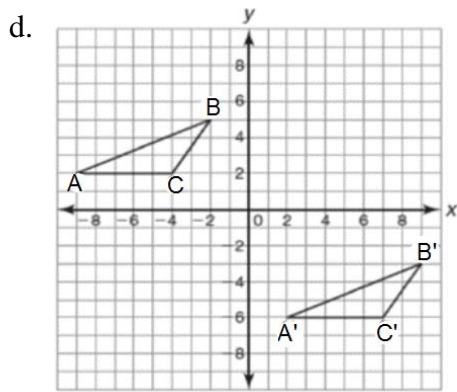
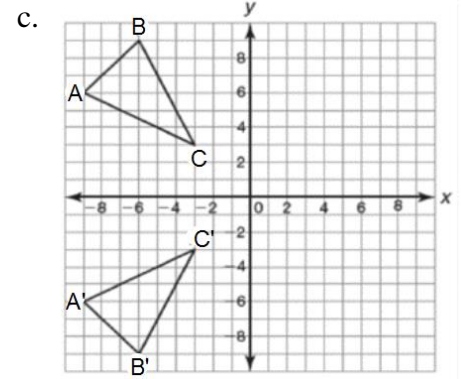
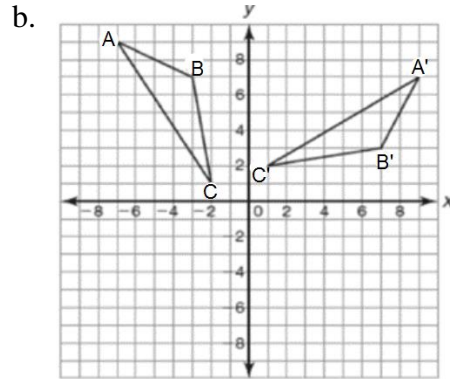
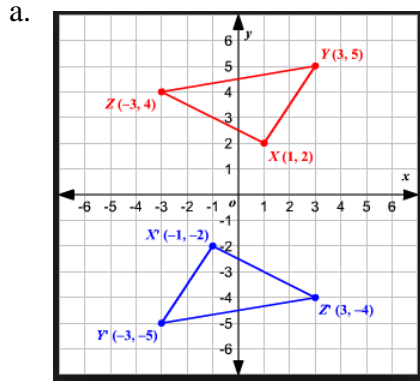
B' _____

C' _____

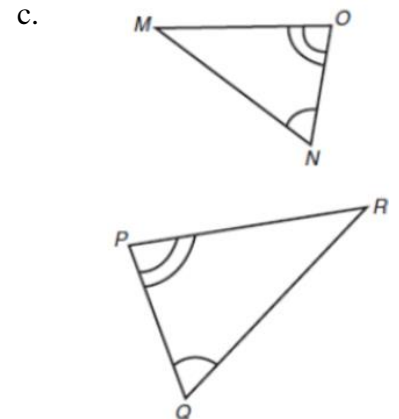
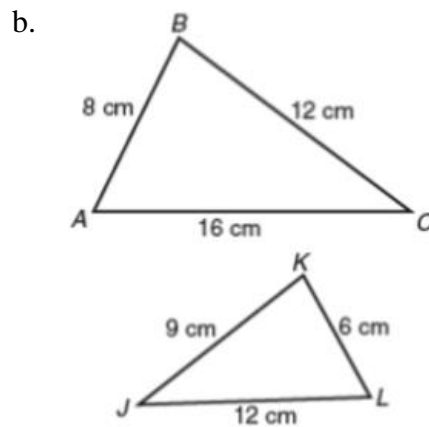
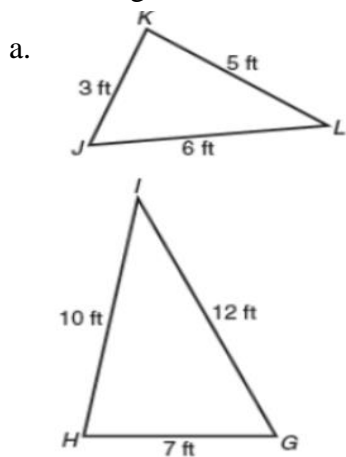
25. Find the Center of Dilation:



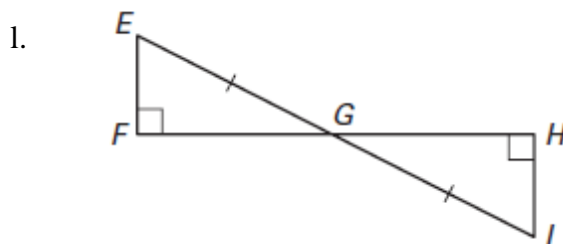
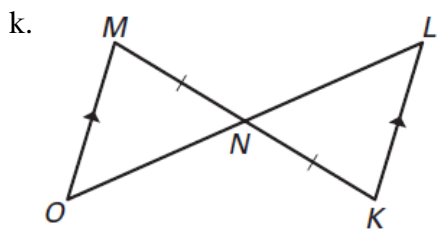
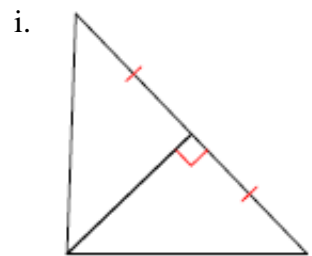
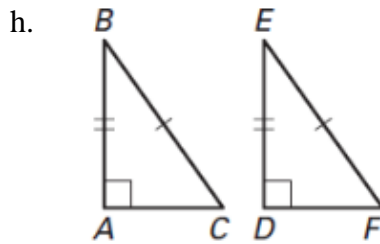
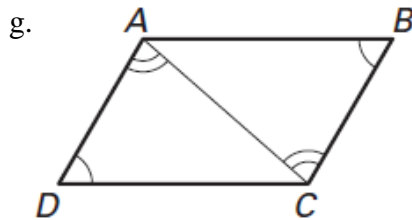
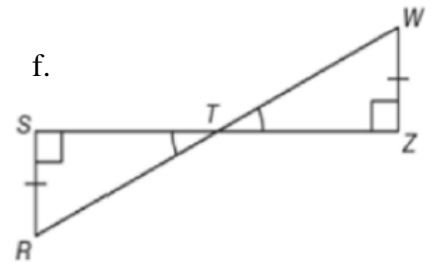
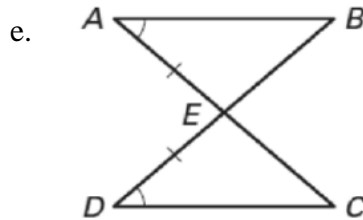
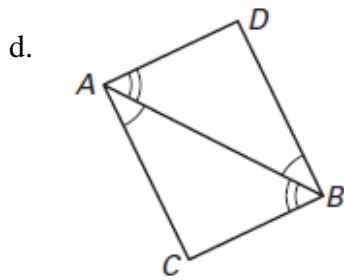
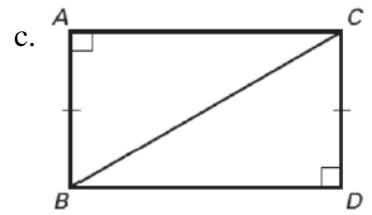
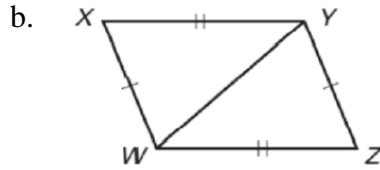
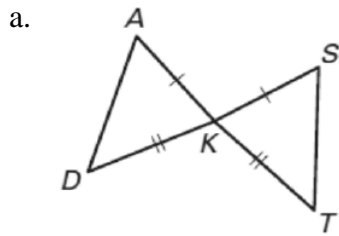
23. Identify the transformation that takes place. Be Specific... for example, what type of reflection, what type of transformation (left 2 up 1 for example), what type of rotation?



24. Are the triangles below similar? Why or Why not? Be sure to show your ratios if required.



25. Are the triangles below congruent? Justify your answer:



26. Given $\triangle ABC \cong \triangle KLM$, identify the following:

$\angle A \cong$ _____ $AB \cong$ _____

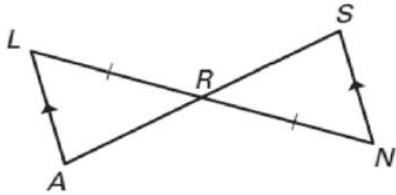
$\angle B \cong$ _____ $AC \cong$ _____

$\angle C \cong$ _____ $BC \cong$ _____

27. Complete the following Proof:

Given: $\overline{LA} \parallel \overline{SN}$, $\overline{LR} \cong \overline{NR}$

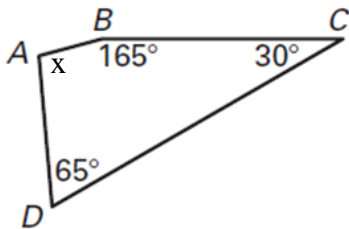
Prove: $\triangle LAR \cong \triangle NSR$



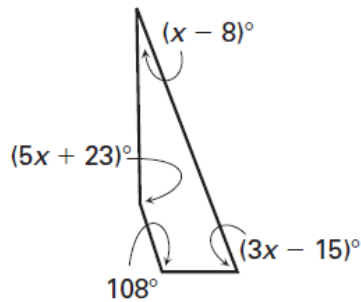
Statements	Reasons
1. $\overline{LA} \parallel \overline{SN}$	1. Given
2. $\angle L \cong \angle N$	2. Alt Interior Angles
3. $\overline{LR} \cong \overline{NR}$	3. _____
4. $\angle LRA \cong \angle NRS$	4. _____
5. $\triangle LAR \cong \triangle NSR$	5. _____

28. Use properties of quadrilaterals and parallelograms to find the missing variable(s):

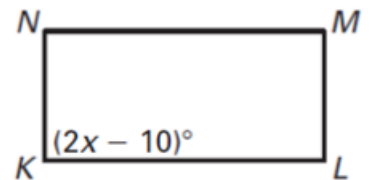
a. Quadrilateral ABCD



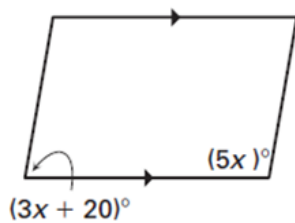
b. Quadrilateral



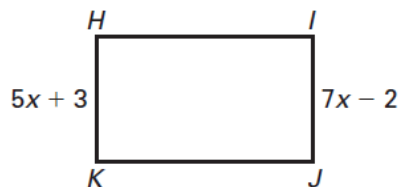
c. Rectangle NMLK



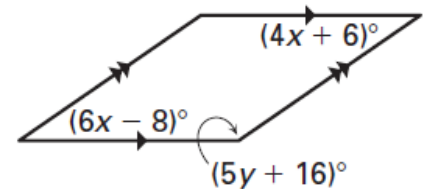
d. Parallelogram



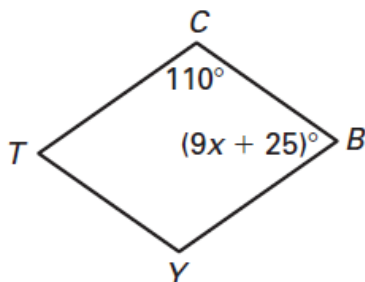
e. Rectangle HIJK



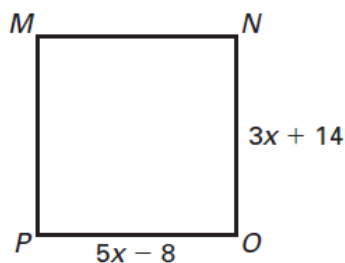
f. Parallelogram (solve for x)



g. Rhombus



h. Square



Also... Be familiar with the steps to each of the constructions we've learned.