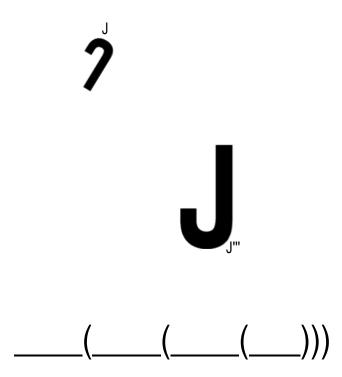
ovamnla that illustrates each one		,	due	Similar by Transfo	ormation 6.1
		Name LO:			
(1) compass, straightedg e	Similarity: Mapping one figure to another through ☐ (a) Observe the figures J, J"', and the intermediate Describe transformations that will map one figure to the approximate angle measures and use a ruler to estime J → J'	e images l ne next. V ate scale	between J and Vhere needed	d J''' below. J and J''' and and J''' and and lines to J''	
	J' → J"				
	J" → J"'				111
	(b) From part (a), there is a sequence of transform notation below.	nations th	at will map J t	o J'". Write the sequer	nce in short
		_((_)))	
	(c) Read the criterion similar figures below.				
	* Two figures are similar if there exists a figure onto the other.	similarity	/ transformation	on that maps one	
	* A similarity transformation is a comp translations, reflections, and/or rotat			nber of dilations,	

Based on the definition you just read, is figure J similar to J""? Describe you how know.

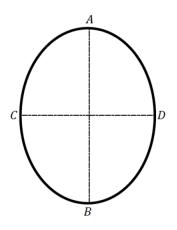
	6			
<u>(2)</u>	Similarity: Mapping one figure to another through a composition of transformations.			
compass, straightedg e	(a) Damian used a different sequence of transformations to map J to J". Does his process also work? If so, write a composition of similarity transformations that will map J to J".			

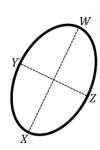
(b) So far, you have described two sequences of transformations that will map J to J". Use the diagram below to write your own sequence of transformations that is different from the two you have already seen. Sketch your sequence of transformations and write it in short notation below.



	?		
			\s /
			Y
			S" /
Write th	e sequence in notation:		
	•		
onto P"		which transformations of	compose the similarity transformation that ma
			P' P"
			U ∕₽
Figu	re P is not ONLY similar to fig	ure P", it is also	to P".
	is a spe	cial case of similarity wh	nen the scale factor for dilation would be
\//rit/	e the sequence in short notation	nn:	
VVIIC	e the sequence in short hotalic	л	
	Show that no sequence of basi ements as needed.	c rigid motions and dilati	ons takes the small figure to the large figure.
IIICasui	ements as necucu.		
			4 R
			A — B

(4)	Similarity: Mapping one figure to another through a composition of transformations.
compass, straightedg	Describe the relationship between scale drawings, dilations, and similar figures by responding to the prompts
	below.
	(1) How are scale drawings and dilations alike?
	(2) How are scale drawings and dilations different?
	(1) What is the relationship of similar figures to scale drawings and dilations?
(5) compass, straightedg	Is there a sequence of basic rigid motions and dilations takes the large figure to the small figure. Take measurements as needed.
•	
	If there is one, write the sequence in short notation:



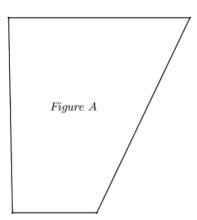


	(4)
com	pass,
strai	iahteda

Similarity: Mapping one figure to another through a composition of transformations.

Construct a sequence of basic rigid motions and dilations takes figure A to figure B. Take measurements as needed. Write the sequence in short notation: _____

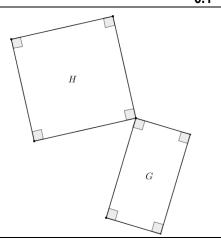




[] (5) compass, straightedg

Exit Ticket

(1) Given the diagram below, identify a similarity transformation, if one exists, that maps *G* onto *H*. If one does not exist, explain why. Provide any necessary measurements to justify your answer.

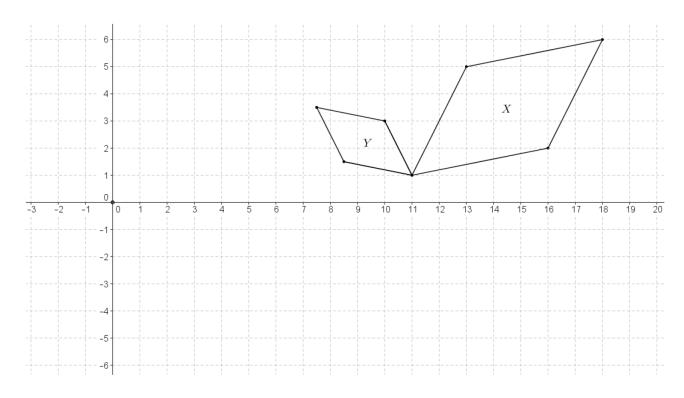


(6)

Homework

compass, straightedg e

 \square (1) Given the coordinate plane shown, identify a similarity transformation, if one exists, mapping X onto Y. If one does not exist, explain why.



(2) Teddy correctly identified a similarity transformation with at least one dilation that maps Figure *I* onto Figure *II* began correctly identified a congruence transformation that maps Figure *I* onto Figure *II*. What must be true about Teddy's similarity transformation?

___(6)

Homework

 \square (3) Given the coordinate plane shown, identify a similarity transformation, if one exists, that maps *ABCD* onto *A"'B"'C"'D"*. If one does not exist, explain why.

