

3.7

Name (print first and last) _____

Per _____ Date: 10/22 due 10/23

3.7 Rigid Transformations: Translations

Geometry Regents 2013-2014 Ms. Lomac

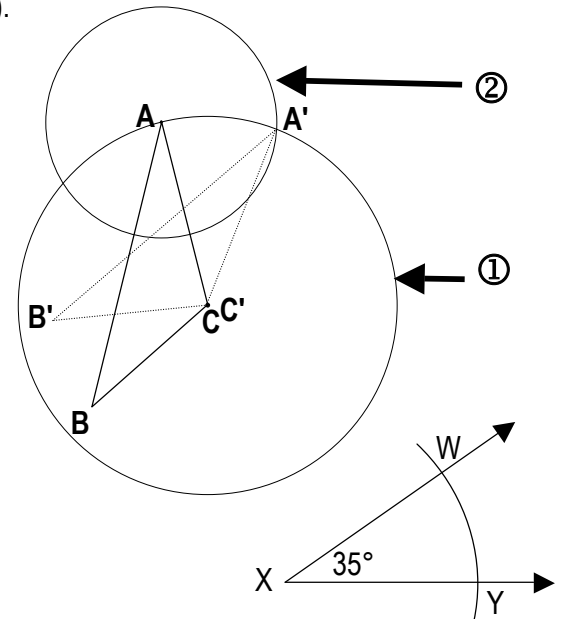
SLO: I can translate figures given a translation vector (distance and direction).

- (1) The steps for rotating point A -35° around point C are constructed and labeled at right. Explain what each step does and why it is necessary.

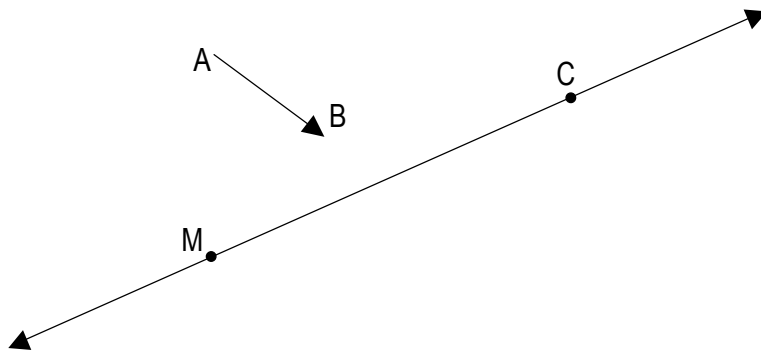
① _____

② _____

③ _____



- (2) Translate \overrightarrow{MC} along the vector (distance & direction) \overrightarrow{AB} . REFERENCE: Lesson 3.6 #5



- ① I will construct circle _____ with radius _____ to show all potential locations of _____ with respect to _____. This is necessary because, given translation vector AB, _____ must be the same distance from _____ as _____ is from ____.
- ② I will construct circle _____ with radius _____ to show all potential locations of _____ with respect to _____. This is necessary because, given translation vector AB, _____ must be the same distance from _____ as _____ is from ____.
- ③ I will construct circle _____

④ _____

⑤ _____

3.7HW

Name (print first and last) _____

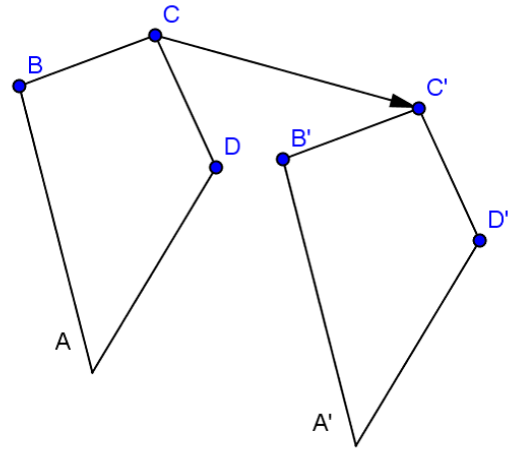
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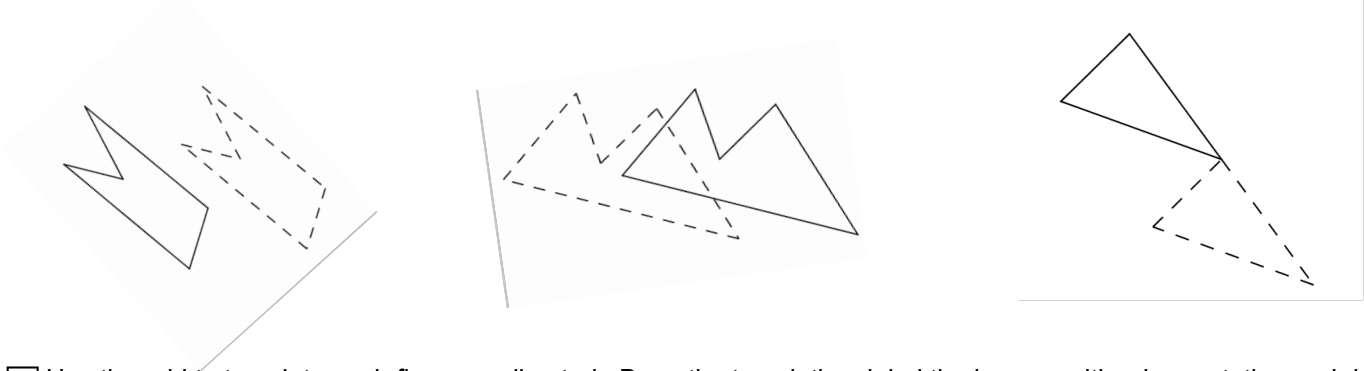
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(1) The translation vector CC' is shown. Draw the translation vectors for B, A, and D.

What do you notice about all of the vectors you have drawn?

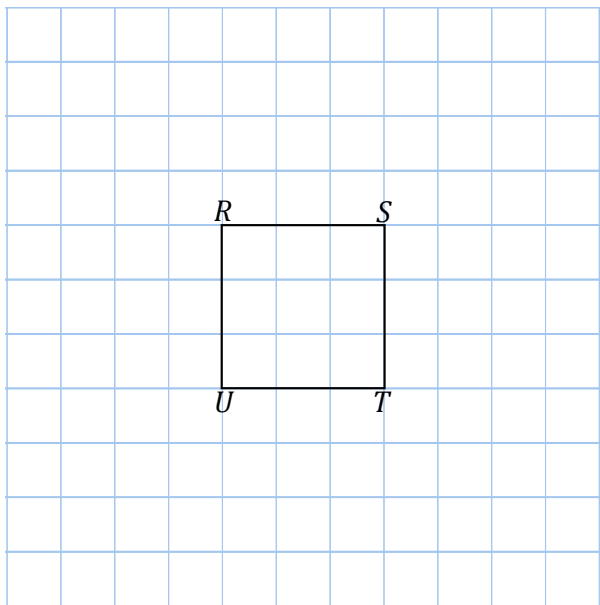


(2) Draw 1 translation vector for each preimage-image pair. The preimages are solid while the images are dashed.

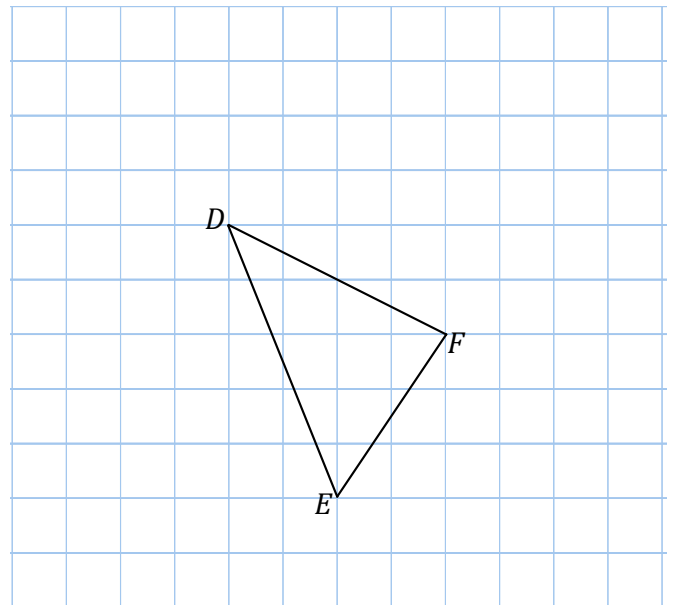


(3) Use the grid to translate each figure as directed. Draw the translation, label the images with prime notation and draw the vector that defines the translation.

(a) Translate 3 units left and 2 units down.

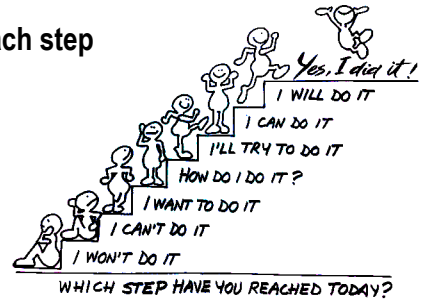
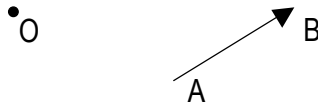


(b) Translate DEF 2 units right and 1 unit up.



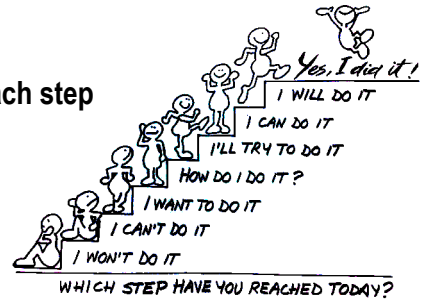
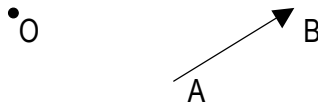
3.7 Exit Ticket Name _____ Per _____

Use a compass and straightedge to translate point P along the vector AB. Explain each step



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