

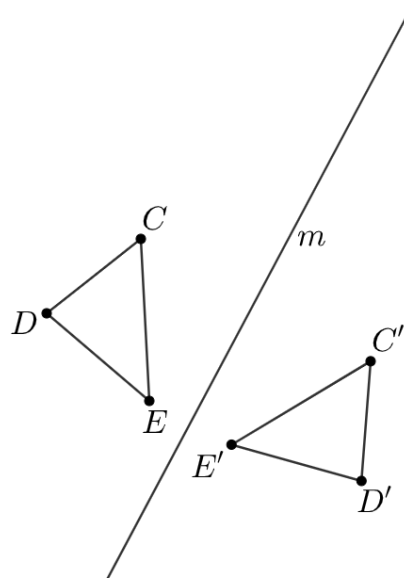
Lesson 1.11
Deep Dive: Transformations

Geometry GT

Task #1

$\triangle C'D'E'$ is the image of $\triangle CDE$ after a reflection across line m .

- A. Reflect $\triangle C'D'E'$ across line $\overleftrightarrow{CC'}$ and label the new image $\triangle C''D''E''$.
- B. Find a single rigid motion that takes $\triangle CDE$ to $\triangle C''D''E''$.

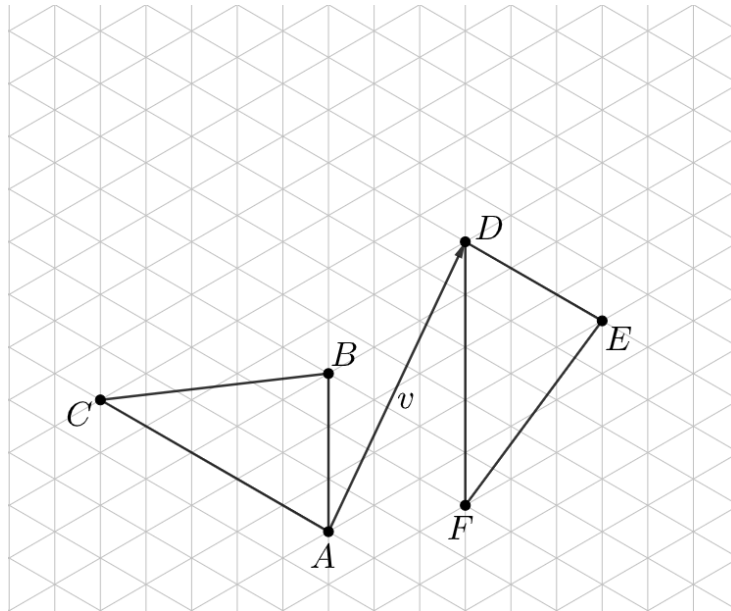


Task #2

AJ suspects $\triangle ABC$ is congruent to $\triangle DEF$. They think these steps will work to show there is a rigid transformation from ABC to DEF :

- Translate by directed line segment v
- Rotate the image 120° clockwise around point D
- Reflect that image over segment \overline{DE}

Draw each image.



A. AJ's first two steps could be combined into a single rotation. What is the center and angle of this rotation?

B. Describe a general procedure for finding a center of rotation.

AREAS FOR IMPROVEMENT	STANDARDS AND CRITERIA	AREAS OF EXCELLENCE
	<p data-bbox="602 285 1016 359">Reason abstractly and quantitatively</p> <p data-bbox="610 428 1008 527">Describe why certain geometric concepts are true and apply the ideas to specific scenarios.</p>	
	<p data-bbox="610 564 992 638">Use appropriate tools strategically</p> <p data-bbox="599 707 1019 806">Accurately use a straightedge, compass, and/or tracing paper to construct the appropriate figures.</p>	
	<p data-bbox="630 844 989 879">Attend to precision</p> <p data-bbox="610 972 1008 1068">Use precise mathematical language in writing instructions and utilize accurate definitions.</p>	