## **Module 7b: Dilations About the Origin**

## Math Practice(s):

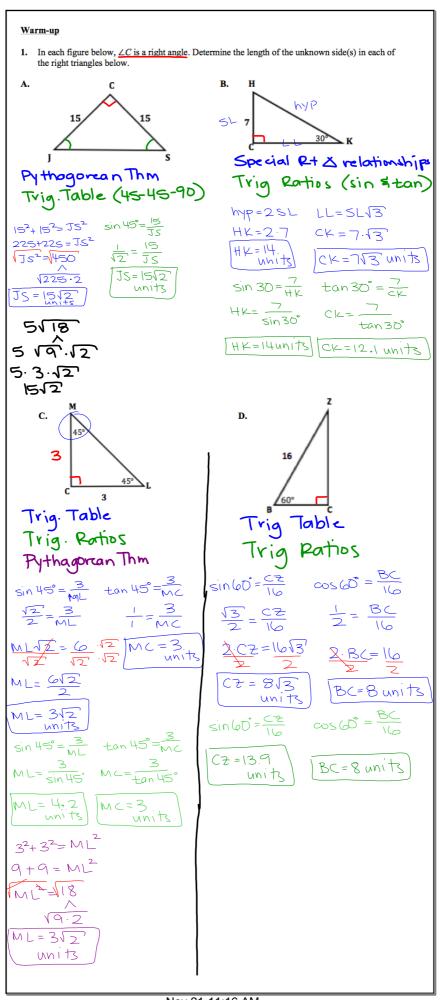
- -Make sense of problems & persevere in solving them.
- -Use appropriate tools strategically.

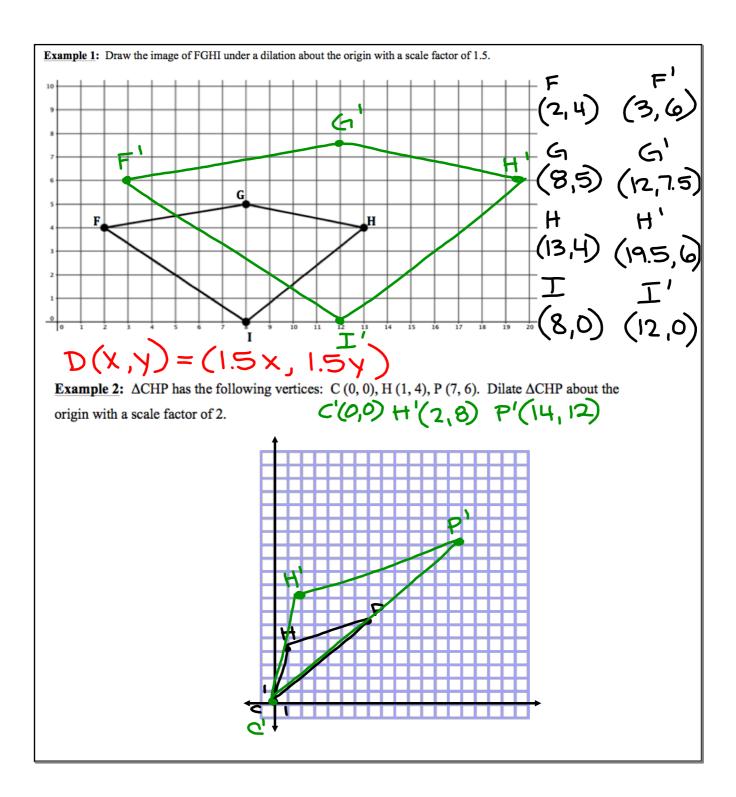
## **Learning Target(s):**

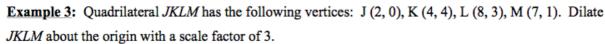
-Understand that dilations increase or decrease the size of a figure by a scale factor multiple.

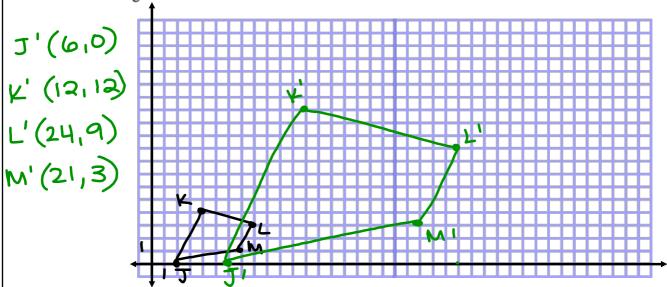
## Homework:

HW#10: 7b #1-3

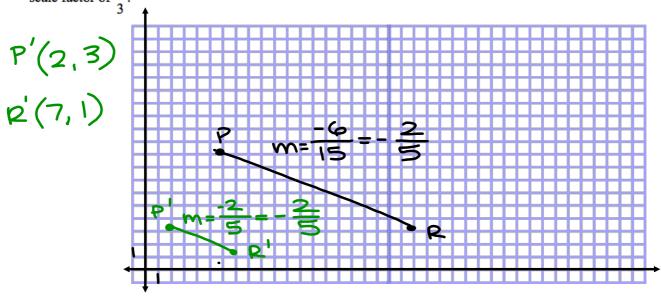


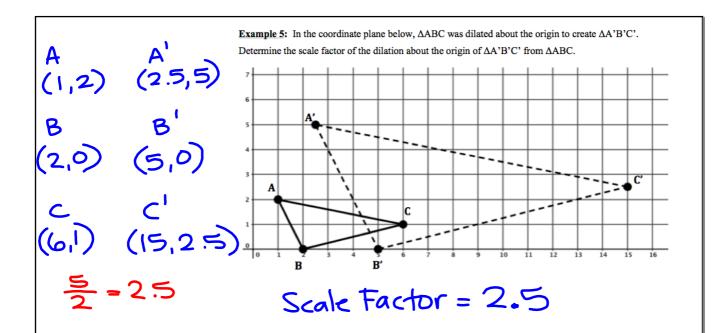






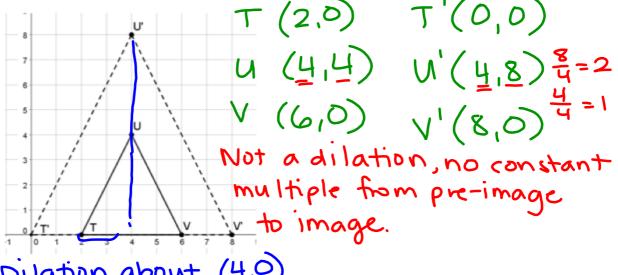
**Example 4:**  $\overline{PR}$  has the following endpoints: P (6, 9), R (21, 3). Dilate  $\overline{PR}$  about the origin with a scale factor of  $\frac{1}{3}$ .





**Example 6:** In the coordinate plane below, determine if  $\Delta T'U'V'$  is a dilation about the origin of

ΔTUV. If it is, write a statement about the dilation and its scale factor. If it is not, explain why.



\* Dilation about (4,0) scale factor of 2.