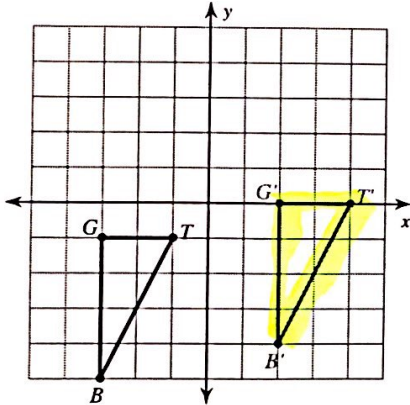


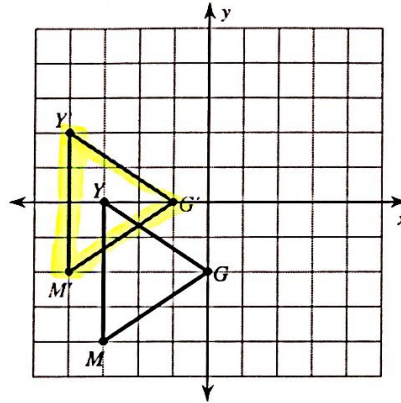
**Translations**

**Graph the image of the figure using the transformation given.**

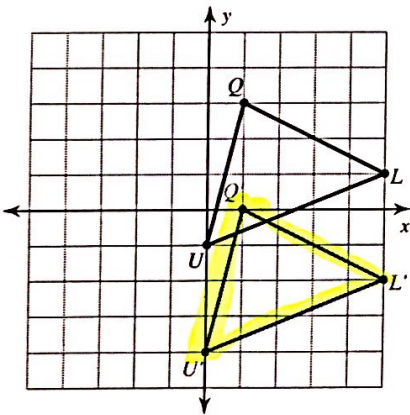
1) translation: 5 units right and 1 unit up



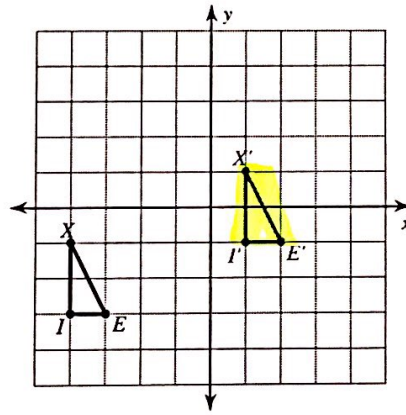
2) translation: 1 unit left and 2 units up



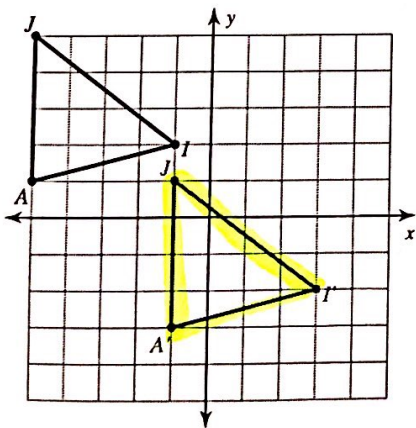
3) translation: 3 units down



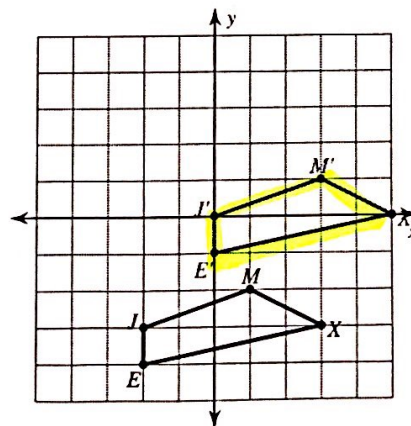
4) translation: 5 units right and 2 units up



5) translation: 4 units right and 4 units down

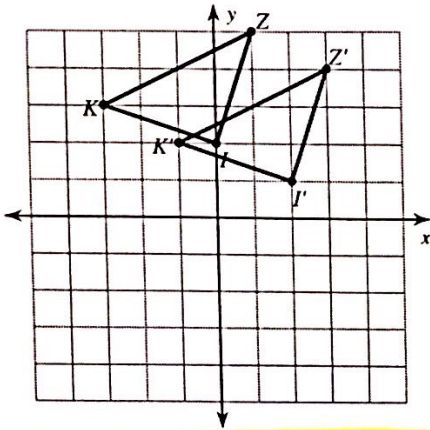


6) translation: 2 units right and 3 units up



Write a rule to describe each transformation.

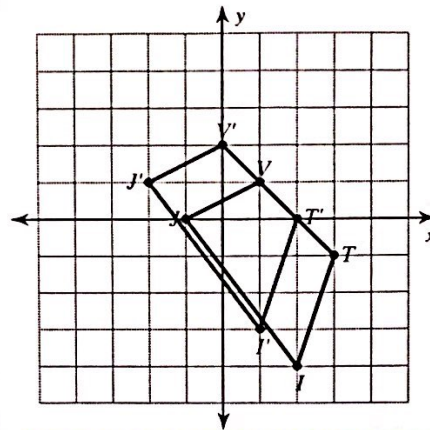
7)



translation: 2 units right and 1 unit down

$$(x+2, y-1)$$

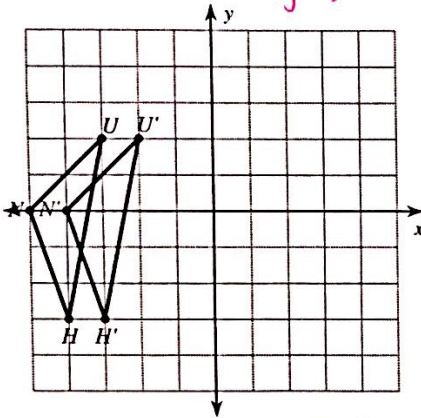
8)



translation: 1 unit left and 1 unit up

$$(x-1, y+1)$$

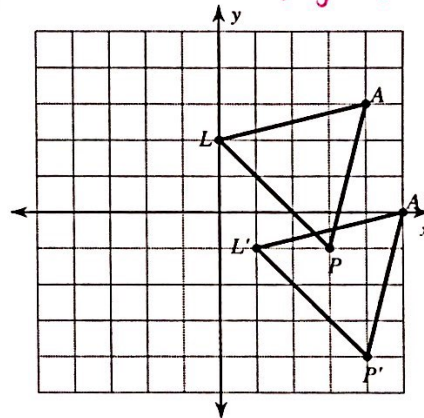
9)



translation: 1 unit right

$$(x+1, y+0)$$

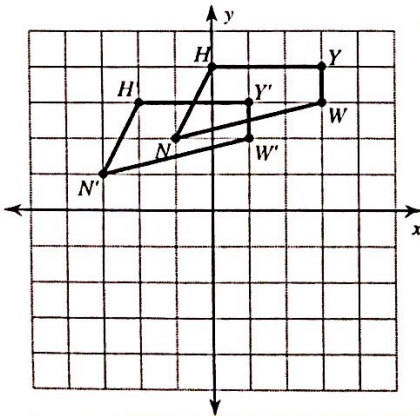
10)



translation: 1 unit right and 3 units down

$$(x+1, y-3)$$

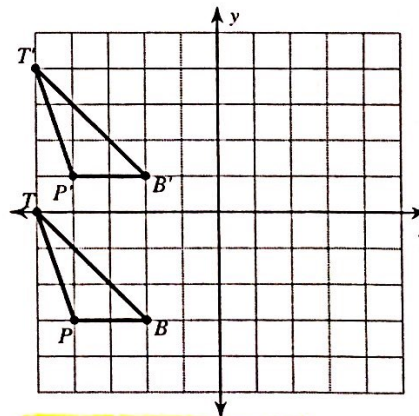
11)



translation: 2 units left and 1 unit down

$$(x-2, y-1)$$

12)



translation: 4 units up

$$(x+0, y+4)$$

Create your own worksheets like this one with **Infinite Geometry**. Free trial available at [KutaSoftware.com](https://www.KutaSoftware.com)