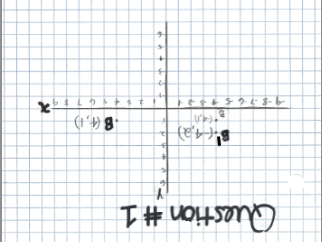
**Glide Reflections Review Questions ANSWERS**

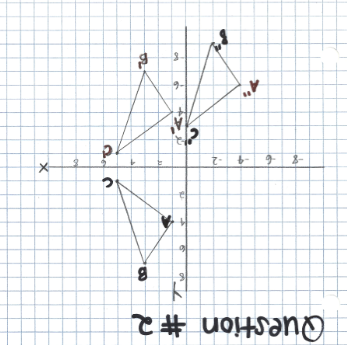
1.  A triangle has vertices *A*(3,2), *B*(4,1) and *C*(4,3).  What are the coordinates of point *B* under a glide reflection,  ?

****In this case, the only point that is going to undergo the transformations is point B, so you only have to focus on that point.

B (4, 1) becomes (-4, 1) after the reflection over the line x=0.

(-4,1) becomes (-4, 2) after the translation <0,1>

**ANSWER: (-4,2)**

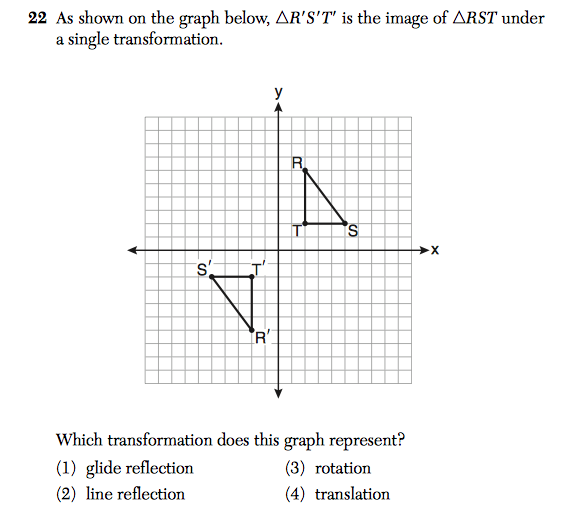


1. Given triangle *ABC:* *A*(1,4), *B*(3,7), *C*(5,1). Graph and label the following composition: 

Triangle *A'B'C'* is the reflection over the *x*-axis.

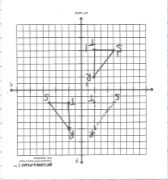
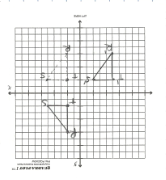
Then triangle *A''B''C''* is the translation of T(-5,-2).

**ANSWER: *A*''(-4,-6), *B*''(-2,-9), *C*''(0,-3)**

Although glide reflection is a choice in this question, the answer is **rotation**.

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| --- | --- |
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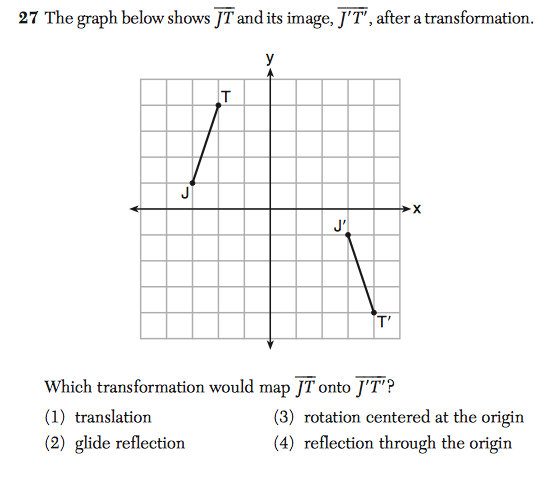
This is how the triangle would look if it were a glide reflection:



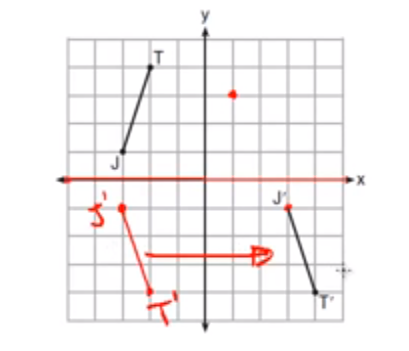
or

Here the reflection is over the x-axis and then there is a translation to the left.

As you can see there is a glide reflection over the y-axis and then a downward translation.



The answer to this question is (**2) glide reflection.**



Here you can see that there is a reflection over the x-axis and later a translation to the right.

Here is a video that further explains this question: <http://www.youtube.com/watch?v=JkDan2WWdUQ>