

## P.S. #6.5c - Mixed Transformations

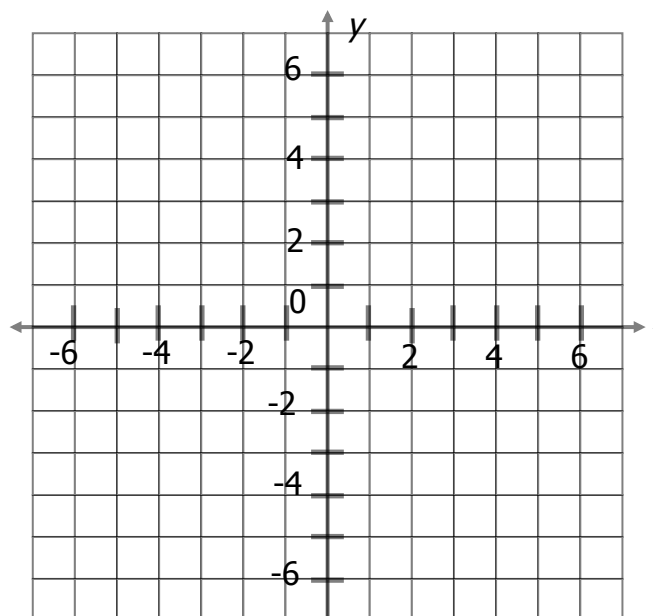
Name: \_\_\_\_\_ Class: \_\_\_\_\_

1.) Graph  $\triangle BUG$  with coordinates  $B(1,1)$ ,  $U(1,5)$ , and  $G(6,1)$ .

a.) Reflect  $\triangle BUG$  over the  $y$ -axis. State the new coordinates.

b.) Reflect  $\triangle B'U'G'$  over the line  $y = x$ . State the new coordinates.

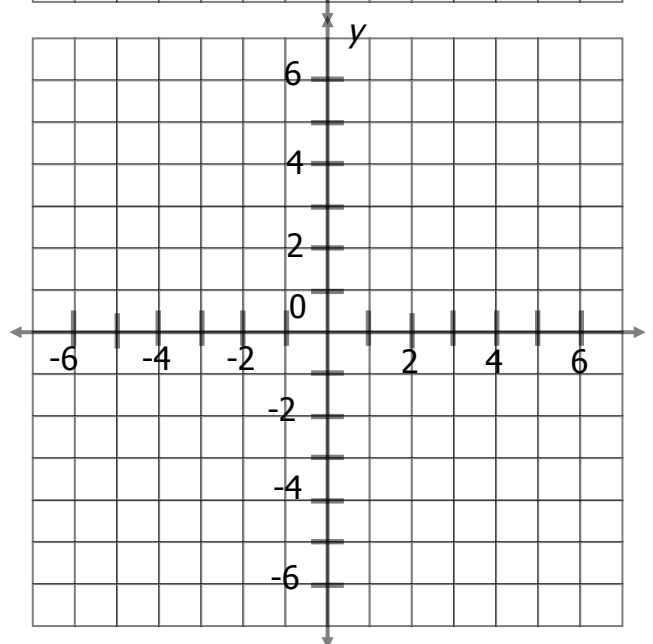
c.) What single transformation accomplishes these transformations?



2.) Graph  $\triangle ABC$  with coordinates  $A(1,4)$ ,  $B(3,7)$  and  $C(5,1)$ .

a.) Reflect  $\triangle ABC$  over the  $x$ -axis. State the new coordinates.

b.) Translate  $\triangle A'B'C'$  using the rule  $T_{-5,-2}$ . State the new coordinates.



3.) Express  $4.5 \cdot 10^{-4}$  in standard form.

