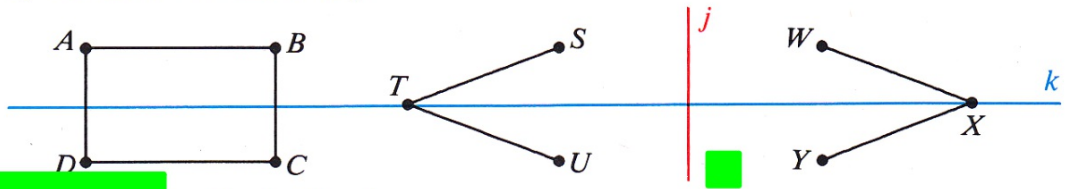
WARMUP

Complete the following. Assume points D, C, U, W, X, and Y are obtained by reflection in line k or j.

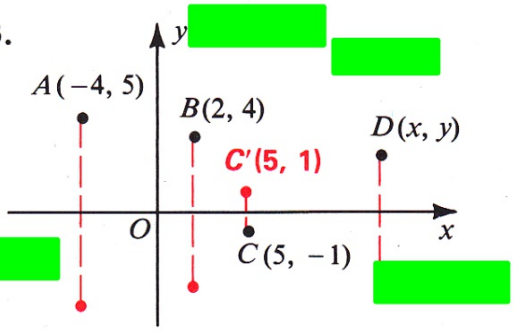


reflection in line *k*

1. R_k stands for ___?___.
2. $R_k: A \rightarrow$ ___?___ *D*
3. $R_k(B) =$ ___?___ *C*
4. $R_k: \overline{AB} \rightarrow$ ___?___ $\overline{DC}$
5. $R_k(C) =$ ___?___ *B*
6. $R_k: T \rightarrow$ ___?___ *T*
7. $R_k: \overline{BC} \rightarrow$ ___?___ $\overline{CB}$
8. $R_k: \angle STU \rightarrow$ ___?___ $\angle UTS$
9. $R_j(S) =$ ___?___ *W*
10. $R_j: \overline{ST} \rightarrow$ ___?___ $\overline{WX}$
11. $R_j($___?___$) = \overline{XY}$ $\overline{TU}$
12. R_j: line $k \rightarrow$ ___?___ line *k*

Points A–D are reflected in the x-axis. Points E–H are reflected in the y-axis. State the coordinates of the images.

13.



$A'(-4, -5)$ $B'(2, -4)$ $D'(x, -y)$