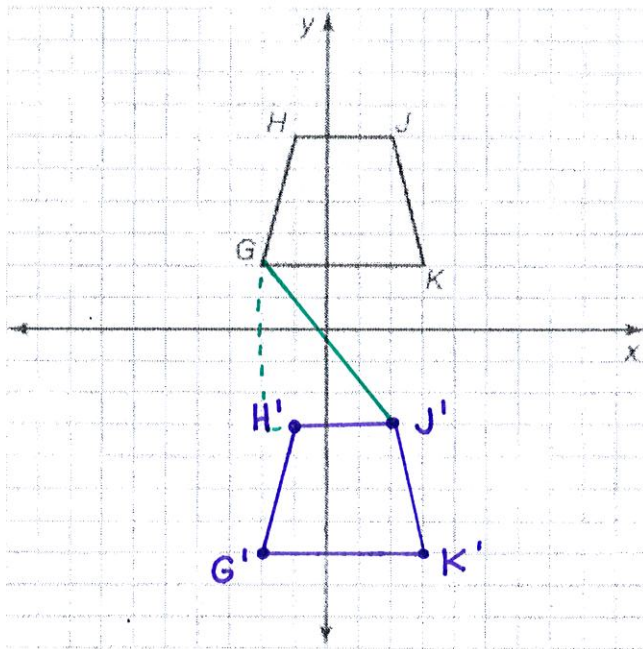


# Translation Distance with Pythagorean Theorem

- Big Ideas:
- \*Translations are a "slide" of a shape either horizontally or vertically
  - \*Pythagorean theorem can find distances between points.

Example: Translate the Trapezoid GHJK down 9 units. Find the distance between point G and point J'



$$\begin{aligned}a^2 + b^2 &= c^2 \\4^2 + 5^2 &= c^2 \\16 + 25 &= c^2 \\41 &= c^2 \\\sqrt{41} &= c \\6.40 &\approx c\end{aligned}$$