GRADE 8 MATH · HOMEWORK

Reflect a Figure on a Coordinate Plane

SCORE / 25

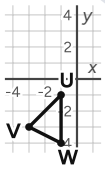
01 Part A · Practice

Across the x-axis $(x, y) \to (x, -y)$; across the y-axis $(x, y) \to (-x, y)$. Reflect every vertex, then connect.

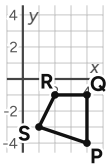
1 ●○○ Use the rule $(x, y) \to (x, -y)$ to find the image of figure $KLMN$: $K(1, 4)$, $L(1, 2)$, $M(3, 1)$, $N(4, 4)$. Which axis is the line of reflection?

2 ●○○ $\triangle LMN$ has vertices $L(-6, 2)$, $M(-5, -1)$, $N(-3, 0)$. Find the vertices of its image after a reflection across the y-axis.

3 ●○○ $\triangle UVW$ is reflected across the x-axis. Find V'.

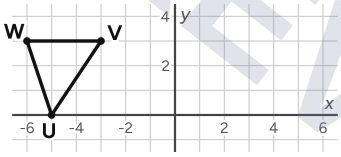


4 ●○○ Reflect figure $PQRS$ across the x-axis. List the image vertices.



5 ●○○ Use the rule $(x, y) \to (x, -y)$ to find the image of $\triangle RST$: $R(0, 1)$, $S(3, 2)$, $T(2, 4)$. Which axis is the line of reflection?

6 ●○○ Reflect $\triangle UVW$ across the y-axis. List the image vertices.



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Preview - the full worksheet and its answer key are at primeworksheet.com