A reflection is....

A reflection is not...
Example #1

Reflect a Point

Construct the image of \( P' \) after the following:

\[ r \]

\( x \)-axis

Example #2

Reflect a Point

Construct the image of \( P' \) after the following:

\[ r \]

\( y \)-axis

\( P(\ ,\ ) \rightarrow P'(\ ,\ ) \)
Example #3

Reflect a Segment

Construct the following transformation on QT:

\[ r_{x=-2} \]

Example #4

Reflect a Segment

Construct the following transformation on QT:

\[ r_{y=3} \]

\[ Q(0,7) \rightarrow Q'(\ ,\ ) \]

\[ T(4,3) \rightarrow T'(\ ,\ ) \]
Example #5

Reflect a Figure

Construct the image of \( \Delta B'C'D' \) after the following:

\[ r_{y=x} \]

\[
\begin{align*}
B(7, 1) & \quad B'(\quad, \quad) \\
C(6, -6) & \quad C'(\quad, \quad) \\
D(2, -5) & \quad D'(\quad, \quad)
\end{align*}
\]

Example #6

Reflect a Figure

Construct the image of \( \Delta B'C'D' \) after the following:

\[ r_{y=-x} \]

\[
\begin{align*}
B(7, 1) & \quad B'(\quad, \quad) \\
C(6, -6) & \quad C'(\quad, \quad) \\
D(2, -5) & \quad D'(\quad, \quad)
\end{align*}
\]