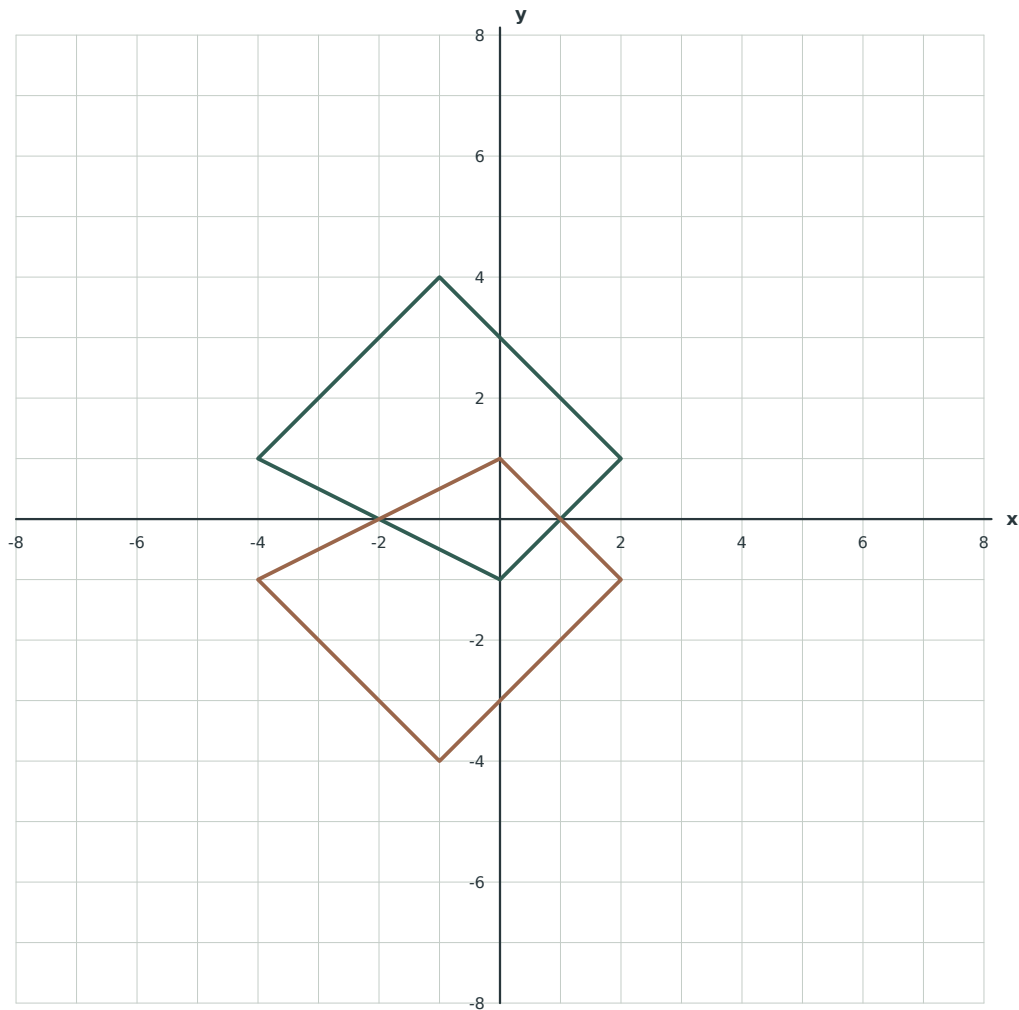


Reflect over x-axis

Plot the original point set, then apply the stated sign change. Join corresponding vertices in the same order.

Original points: $[-4, 1]$, $[-1, 4]$, $[2, 1]$, $[0, -1]$; reflect over x axis.

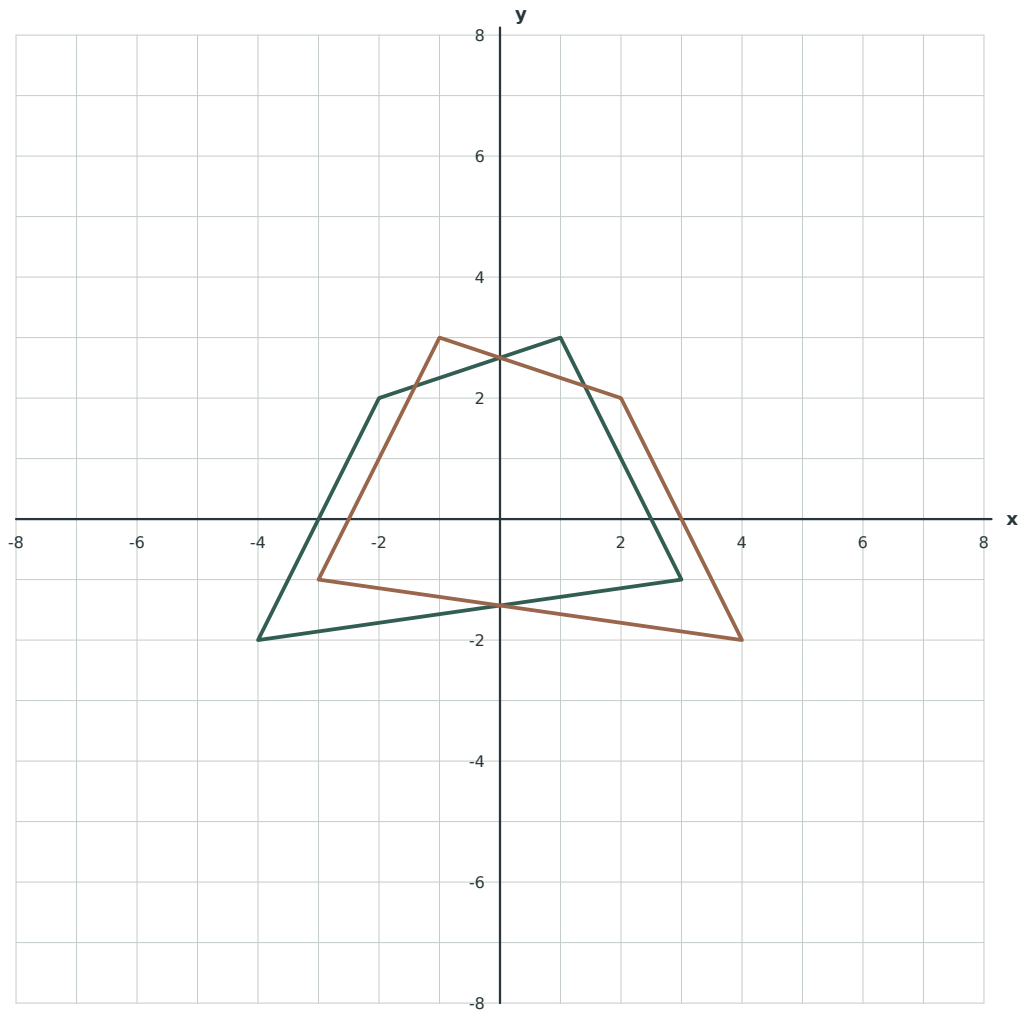


1. State the reflected coordinates. Reflection over x axis: $(-4, -1)$, $(-1, -4)$, $(2, -1)$, $(0, 1)$.
2. Which points remain on an axis? Points on a reflecting axis stay in place.
3. Connect corresponding vertices. Connect corresponding points in the same order.

Reflect over y-axis

Plot the original point set, then apply the stated sign change. Join corresponding vertices in the same order.

Original points: $[-4, -2]$, $[-2, 2]$, $[1, 3]$, $[3, -1]$; reflect over y axis.

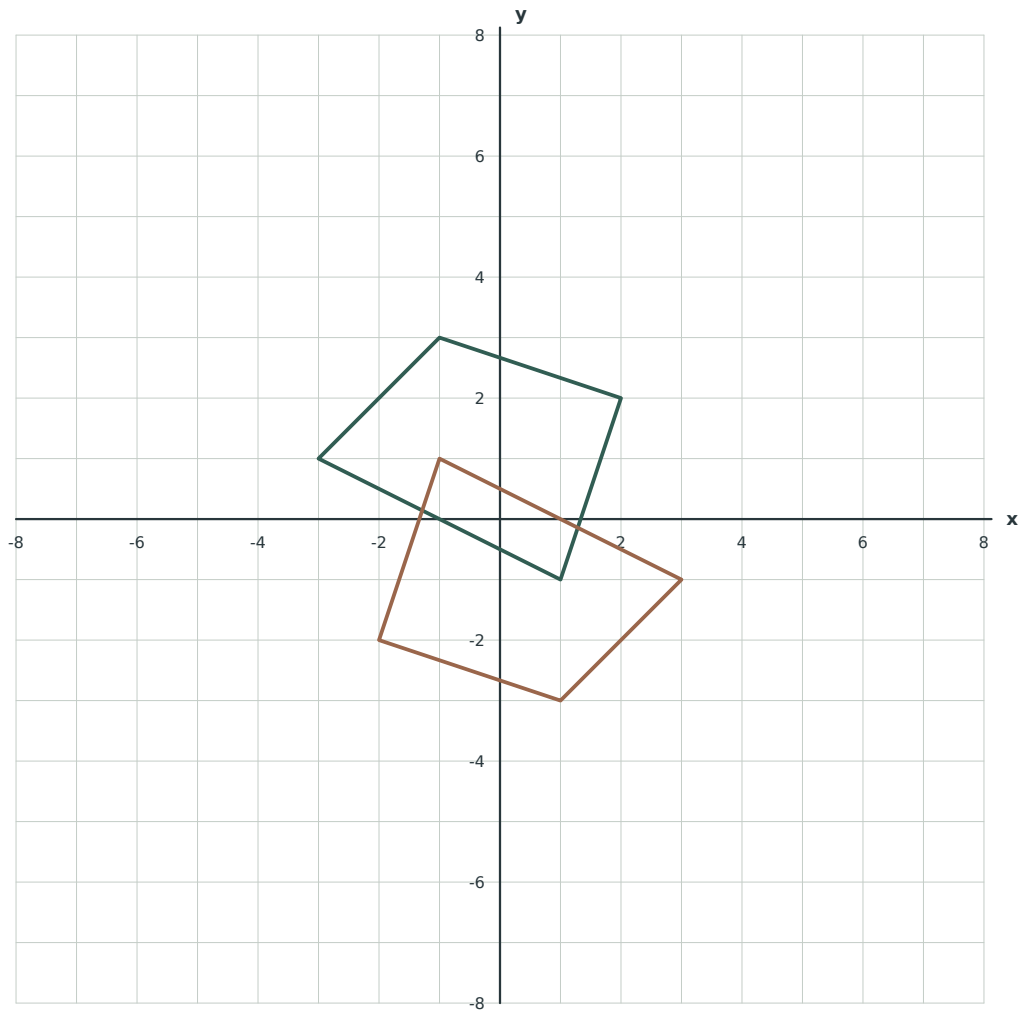


1. State the reflected coordinates. Reflection over y axis: $(4, -2)$, $(2, 2)$, $(-1, 3)$, $(-3, -1)$.
2. Which points remain on an axis? Points on a reflecting axis stay in place.
3. Connect corresponding vertices. Connect corresponding points in the same order.

Reflect over both axes

Plot the original point set, then apply the stated sign change. Join corresponding vertices in the same order.

Original points: $[-3, 1]$, $[-1, 3]$, $[2, 2]$, $[1, -1]$; reflect over xy axis.

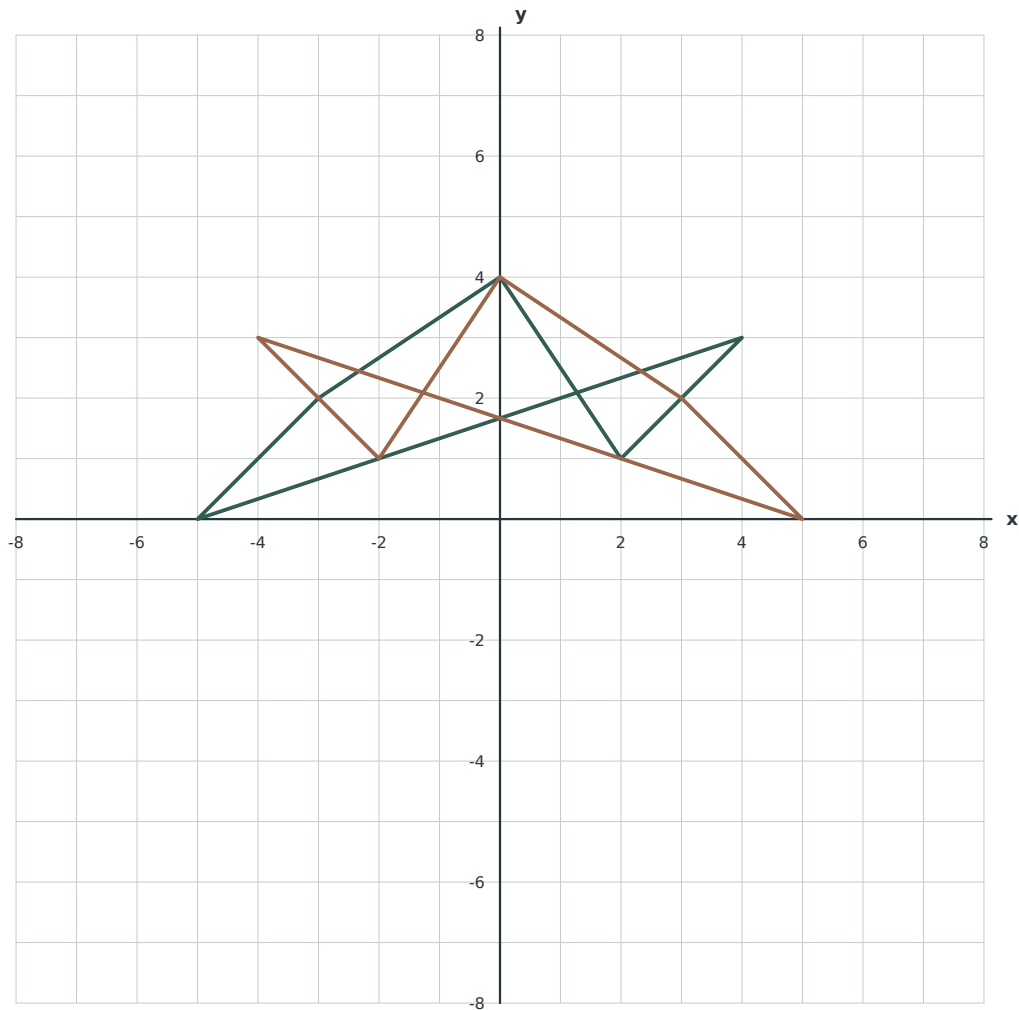


1. State the reflected coordinates. Reflection over xy axis: $(3, -1)$, $(1, -3)$, $(-2, -2)$, $(-1, 1)$.
2. Which points remain on an axis? Points on a reflecting axis stay in place.
3. Connect corresponding vertices. Connect corresponding points in the same order.

Compare a point set

Plot the original point set, then apply the stated sign change. Join corresponding vertices in the same order.

Original points: $[-5, 0]$, $[-3, 2]$, $[0, 4]$, $[2, 1]$, $[4, 3]$; reflect over y axis.



1. State the reflected coordinates. Reflection over y axis: $(5, 0)$, $(3, 2)$, $(0, 4)$, $(-2, 1)$, $(-4, 3)$.
2. Which points remain on an axis? Points on a reflecting axis stay in place.
3. Connect corresponding vertices. Connect corresponding points in the same order.