

Rigid Motions and Congruent Triangles - Guided Lesson Explanation

Explanation#1

We can see that all points are moved (translated) 9 unit left (x) and 7 units up (y)

In mapping format: $(x, y) \longrightarrow (x+8, y + 7)$

In notation format: $T(8, 7)$ Therefore, the figures are equal.

Explanation#2

Step 1) First we have to see what is being asked.

"Find the coordinate notation."

Step 2) Therefore, the triangles are not congruent. The triangles are also two different sizes, so they are not congruent.

Explanation#3

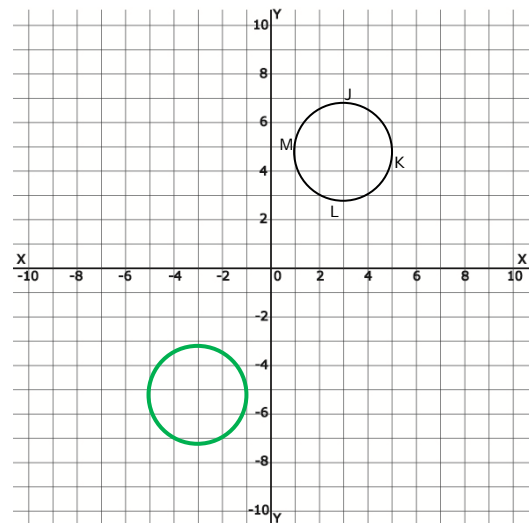
Reflection:

J $(3, 7) \dots (-3, 7)$

K $(5, 5) \dots (-5, 5)$

L $(3, 3) \dots (-3, 3)$

M $(1, 5) \dots (-1, 5)$



Translation Notation:

All points move down

10 units or $y = -10$

Notation would be

$T(0, -10)$

