

Quiz 2.1–2.4

1. The corresponding sides of the triangles do not have the same measure. So, the triangles are not congruent.
2. The corresponding angles of the rectangles have the same measure and the corresponding sides of the rectangles have the same measure. So, the rectangles are congruent.
3. The red figure turns to form the blue figure. So, the blue figure is not a translation of the red figure.
4. The red figure slides to form the blue figure. So, the blue figure is a translation of the red figure.
5. The red figure can be flipped to form the blue figure. So, the blue figure is a reflection of the red figure.
6. If the red figure was flipped, it would not create a mirror image. So, the blue figure is not a reflection of the red figure.
7. *Sample answer:* Rotate 90° clockwise about the origin and then translate 1 unit left and 1 unit down; rotate 90° clockwise about the vertex $(-1, 1)$ and then translate to the 1 unit right and 1 unit down.
8. *Sample answer:* rotate 180° degrees clockwise about the origin and then translate 1 unit right and 1 unit down; translate 1 unit left and 1 unit up and then reflect in the x -axis and reflect in the y -axis
9. *Sample answer:* Translate point A 6 units right and 4 units down to get point B .
10. no; After reflecting the ball in the y -axis, the ball will be at the point $(-2, 4)$, which is not contained in the radius of the hole.