(example) Reading Quiz §1

1. [3] True/False: If the statement is *always* true, give a *brief* explanation of why it is (not a formal proof!). If the statement is false, give a counterexample.

   (a) The notation HR_{270} means to flip the square over the horizontal axis and then rotate a square counterclockwise by 270°.

   (b) Using the notation from the book, $HR_{270} = D$.

   (c) Every element of D_4 has an inverse.

2. [2] Create an object or shape with a cyclic rotational but not reflective symmetry.