Extra Practice 7 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Master 7.29

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| Lesson 7.7 Identifying Types of Symmetry on the Cartesian Plane  u07_m27-t45u07_m27-t44**1.** For each pair of shapes, determine whether they are related by a Reflection (Re),  by Rotational Symmetry (Ro), or by Translation (Ta). Describe the symmetry, if any. **a)**  **b)**  u07_m27-t47u07_m27-t46 **c)**  **d)**  **2.** Which of the rectangles A, B, C, D is related to rectangle X:  **a)** by rotational symmetry about the origin?  **b)** by rotational symmetry about one of the vertices of rectangle X?  **c)** by line symmetry?  u07_m27-t48  **3.** Identify and describe the types of symmetry in the petal shapes.  a) b) c) d) e)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | u07_m27-t49 | u07_m27-t50 | u07_m27-t51 | u07_m27-t52 | **u07_m27-t53** |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Rotational** |  |  |  |  |  | | **Line Symmetry** |  |  |  |  |  |   u07_m27-t54**4.** Draw the image of quadrilateral WXYZ after each transformation.  Write the coordinates of each shape formed by quadrilateral WXYZ  and its image. Describe the symmetry in each of these shapes.  **a)** reflection in the *x*-axis  **b)** rotation 90° clockwise about the origin  **c)** rotation 90°clockwise about the point (1, 0)  **d)** translation 1 square right and 1 square down    d.  c.  b.  a. |