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

Master 7.29

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| Lesson 7.7 Identifying Types of Symmetry on the Cartesian Planeu07_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)

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|  u07_m27-t49 |  u07_m27-t50 |  u07_m27-t51 | u07_m27-t52 |  **u07_m27-t53** |

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| **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. |