Extra Practice 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Master 7.28

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| Lesson 7.6 Line and Rotational Symmetryu07_m26-t41u07_m26-t39u07_m26-t40u07_m26-t38**1.** Which polygons have rotational symmetry? State the order of rotation and the angle of rotation symmetry for each.**a) b) c) d)**u07_m26-t42**2.** Draw the rotation image for each rotation of quadrilateral ABCD.Rotate quadrilateral ABCD clockwise about vertex D by:**a)** 60° **b)** 120° **c)** 180° **d)** 240° **e)** 300°Consider the larger shape formed by quadrilateral ABCD and these rotation images. Describe the symmetry of this shape.**3.** What is the order of rotation and the angle of rotation symmetry, if any, for:**a)** an equilateral triangle **b)** a regular polygon with 9 sides**c)** a kite that is not a rhombus **d)** the plus sign +**4.** Plot the kite FISH on a coordinate grid. The vertices of FISH are F(3, 4), I(5, 2), S(3, 1), H(1, 2). Rotate the kite FISH:**a)** 90° clockwise about vertex F**b)** 180° about vertex F**c)** 270° clockwise about vertex FDraw each rotation image.Look at the shape formed by the kite and its rotation images. Write the coordinates of this shape. F( , ) I( , ) S( , ) H( , )Describe any rotational symmetry in this shape.u07_m26-t43**5.** Draw the rotation image for each transformation of quadrilateral ABCD.**a)** 180° about vertex B**b)** 90° clockwise about vertex A**c)** 90°counterclockwise about point E |