Lesson 7.3 Practice: Rotations and Rotational Symmetry

School Launch · Geometry · Unit 7: Transformations · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Rotate $(6, -6), (1, -5)$ by $90°$ counterclockwise about the origin. EASY

2. Rotate $(-2, 5), (-4, 1)$ by $180°$ counterclockwise about the origin. EASY

3. Rotate $(1, 1), (-4, -2)$ by $270°$ counterclockwise about the origin. EASY

4. Rotate $(-6, 1), (-1, 2), (4, 2)$ by $90°$ counterclockwise about the origin. MEDIUM

5. Rotate $(5, 3), (-1, -4), (-6, 6)$ by $270°$ counterclockwise about the origin. MEDIUM

6. Rotate $(-3, -5), (4, 4), (-5, -5)$ by $180°$ counterclockwise about the origin. MEDIUM

7. Rotate $(-5, 5), (-5, -6), (-4, 0)$ by $270°$ counterclockwise about the origin. MEDIUM

8. Rotate $(-5, 3), (-3, 5), (-3, 2)$ by $270°$ counterclockwise about the origin. HARD

9. Rotate $(-1, 3), (-1, -6), (-1, 4)$ by $90°$ counterclockwise about the origin. HARD

10. Rotate $(-5, -4), (6, -6), (-1, -2)$ by $180°$ counterclockwise about the origin. HARD