Lesson 7.5 Practice: Dilations

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. Dilate $(-5, 4), (4, 5), (4, -6)$ by scale factor 3 centered at the origin. EASY

2. Dilate $(3, 4), (3, 3), (-2, 4)$ by scale factor 2 centered at the origin. EASY

3. Dilate $(3, -3), (0, 0), (4, 1)$ by scale factor 3 centered at the origin. EASY

4. Dilate $(3, -1), (-5, 4), (0, 0)$ by scale factor 3 centered at the origin. MEDIUM

5. Dilate $(-6, 2), (-3, -6), (-5, -2)$ by scale factor 2 centered at the origin. MEDIUM

6. Dilate $(-6, -5), (6, 1), (-2, -1)$ by scale factor $\frac{3}{2}$ centered at the origin. MEDIUM

7. Dilate $(2, 1), (2, 0), (-6, -1)$ by scale factor 3 centered at the origin. MEDIUM

8. Dilate $(1, -5), (2, 2), (0, 0)$ by scale factor 3 centered at $(0, 2)$. HARD

9. Dilate $(1, 0), (-1, -6), (-3, -2)$ by scale factor 3 centered at $(3, 0)$. HARD

10. Dilate $(-1, -1), (-5, 4), (-2, 4)$ by scale factor $\frac{3}{2}$ centered at $(3, 0)$. HARD