Lesson 7.4 Practice: Compositions and Congruence

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. Translate $(4, -4), (4, -3)$ by $\langle -5, -2 \rangle$, then reflect the image across the y-axis. Give the final coordinates. EASY

2. Translate $(4, -4), (-2, -4)$ by $\langle 1, -2 \rangle$, then reflect the image across the y-axis. Give the final coordinates. EASY

3. Translate $(4, 0), (-3, 3)$ by $\langle -1, -1 \rangle$, then reflect the image across the y-axis. Give the final coordinates.

EASY

4. Translate $(2, -2), (6, 3)$ by $\langle 5, -4 \rangle$, then reflect the image across the y-axis. Give the final coordinates.

MEDIUM

5. Translate $(0, 3), (-5, 6)$ by $\langle 1, 5 \rangle$, then reflect the image across the y-axis. Give the final coordinates.

MEDIUM

6. Translate $(4, -5), (1, -4)$ by $\langle 4, -4 \rangle$, then reflect the image across the y-axis. Give the final coordinates.

MEDIUM

7. Translate $(2, 4), (6, -1)$ by $\langle -1, -3 \rangle$, then reflect the image across the y-axis. Give the final coordinates.

MEDIUM

8. Translate $(6, -5), (-6, 0)$ by $\langle 1, 2 \rangle$, then reflect the image across the y-axis. Give the final coordinates. HARD

9. Translate $(-5, 3), (3, -3)$ by $\langle 3, -4 \rangle$, then reflect the image across the y-axis. Give the final coordinates.

HARD

10. Translate $(-1, -6), (-6, -1)$ by $\langle 4, 1 \rangle$, then reflect the image across the y-axis. Give the final coordinates. HARD