Lesson 13.3 Practice: Coordinate Proofs

School Launch · Geometry · Unit 13: Coordinate Geometry and Proof · 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. Triangle with vertices $(0, 0)$, $(12, 0)$, $(2, 12)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. EASY

2. Triangle with vertices $(0, 0)$, $(2, 0)$, $(10, 4)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. EASY

3. Triangle with vertices $(0, 0)$, $(10, 0)$, $(12, 6)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. EASY

4. Triangle with vertices $(0, 0)$, $(12, 0)$, $(4, 10)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. MEDIUM

5. Triangle with vertices $(0, 0)$, $(6, 0)$, $(8, 6)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. MEDIUM

6. Triangle with vertices $(0, 0)$, $(4, 0)$, $(6, 4)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. MEDIUM

7. Triangle with vertices $(0, 0)$, $(10, 0)$, $(4, 12)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. MEDIUM

8. Triangle with vertices $(0, 0)$, $(4, 0)$, $(12, 10)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. HARD

9. Triangle with vertices $(0, 0)$, $(6, 0)$, $(10, 12)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. HARD

10. Triangle with vertices $(0, 0)$, $(8, 0)$, $(12, 10)$. Find the midpoints of the two non-horizontal sides, the length of the midsegment joining them, and verify it is half the base. HARD