Lesson 5.2 Practice: Circumcenter and Incenter

School Launch · Geometry · Unit 5: Relationships Within Triangles · 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. Find the circumcenter of the triangle with vertices $(0, 0)$, $(10, 0)$, $(0, 4)$. EASY

2. Find the circumcenter of the triangle with vertices $(0, 0)$, $(4, 0)$, $(0, 8)$. EASY

3. Find the circumcenter of the triangle with vertices $(0, 0)$, $(4, 0)$, $(0, 10)$. EASY

4. Find the circumcenter of the triangle with vertices $(-4, -6)$, $(4, 0)$, $(4, -6)$. MEDIUM

5. Find the circumcenter of the triangle with vertices $(10, 8)$, $(-6, 8)$, $(-6, 2)$. MEDIUM

6. Find the circumcenter of the triangle with vertices $(-2, -10)$, $(-8, -6)$, $(12, 4)$. MEDIUM

7. Find the circumcenter of the triangle with vertices $(6, 0)$, $(-4, 0)$, $(4, 4)$. MEDIUM

8. Find the circumcenter of the triangle with vertices $(-8, 12)$, $(6, -2)$, $(12, -4)$. HARD

9. Find the circumcenter of the triangle with vertices $(-6, 0)$, $(-12, -2)$, $(-8, 0)$. HARD

10. Find the circumcenter of the triangle with vertices $(0, -6)$, $(-12, 4)$, $(-12, 6)$. HARD