

Geometry H Unit 8 Review Answers

1. Yes, Right
2. Yes, Acute
3. Not a triangle
4. $x=11$ $y=21$ $\text{sum}=32$
5. $x=47$ $y=31$ $\text{sum}=78$
6. $6.439 < \text{Third side} < 30.439$
7. Leg length: $2\sqrt{26}$ will it be just decimals on the test? I think it should for better grades and the radical work in class was just for experience before alg2 next year.
8. 5.385 or $\sqrt{29}$
9. 5.3 ft
10. $u = 10$
11. $y = 5\sqrt{3}$
12. $u = 4\sqrt{5}$
13. $x=1.768$ $y=2.5$ $z=1.443$ $\text{sum}=5.711$
14. $w=6.532$ $x=5.657$ $y=3.266$ $z=5.657$ $\text{sum}=21.112$
15. $x = 25$ $y=20$ $z=12$ $\text{Area} = 150 \text{ units}^2$
16. $x = 9.798$ $y=12.649$ $z=7.746$ $\text{Area} = 61.968 \text{ units}^2$
17. $x=4.083$ $y=8.104$ $z=13.892$ $\text{Perimeter} = 38.080 \text{ units}$
18. a) $\frac{a}{c}$ b) $\frac{b}{c}$ c) $\frac{a}{b}$ d) $\frac{b}{c}$ e) $\frac{a}{c}$ f) $\frac{b}{a}$
19. $x = 6.551$ $y = 19.155$ $\text{Sum} = 25.706$
20. $x = 13.456$ $y = 9.004$ $\text{Sum} = 22.460$
21. $x = 12.111$ $y = 8.104$ $\text{Sum} = 20.215$
22. 59°
23. 24°
24. 43°
25. 236.456 feet
26. 40.75°
27. $m\angle C = 58^\circ, b = 32.96, c = 27.99$
28. $m\angle B = 45^\circ, c = 40.99, a = 27.97$
29. $c = 34.02, m\angle A = 28^\circ, m\angle B = 25^\circ$
30. $m\angle A = 42.7^\circ, m\angle B = 93.01^\circ, m\angle C = 44.29^\circ$
31. Distance = 147.83 ft
32. $m\angle 1 = 42.83^\circ, m\angle 2 = 46.04^\circ, m\angle 3 = 91.13^\circ$