

Geometry 8.3b Worksheet Answers

1. Legs: x, x , Hypotenuse: $x\sqrt{2}$
2. Leg opposite 30° : x , Leg opposite 60° : $x\sqrt{3}$, Hypotenuse: $2x$
3. $x = 9$
4. $x = 13\sqrt{2}$
5. $x = 9\sqrt{3}$
6. $x = 20\sqrt{2}$
7. $x \approx 9.011 m$
8. $x \approx 14.46 m$
9. $x = \frac{9\sqrt{2}}{2}$, $y = \frac{9}{2}$, $z = \frac{9\sqrt{2}}{2}$, $SUM \approx 17.23$
10. $x = \frac{7\sqrt{6}}{6}$, $y = \frac{7\sqrt{3}}{6}$, $z = \frac{7\sqrt{2}}{2}$, $SUM \approx 9.83$
11. $x = 14\sqrt{6}$, $y = 14\sqrt{2}$, $z = 7\sqrt{6}$, $SUM \approx 71.24$
12. $x = \frac{9\sqrt{6}}{2}$, $y = \frac{9\sqrt{3}}{2}$, $z = \frac{9\sqrt{3}}{2}$, $SUM \approx 26.61$