

Application of the Standard Law of Sines - Matching Worksheet

Write the letter of the answer that matches the problem.

- _____ 1. In $\triangle ABC$, side $c = 2$, $m\angle B = 56^\circ$ and $m\angle C = 84^\circ$. Find side b to the nearest tenth of an integer. a. 13.69
- _____ 2. In $\triangle PQR$, $\sin P = 71^\circ$, $\sin Q = 44^\circ$ and $p = 15$. Find the length of q . b. 14.52
- _____ 3. In $\triangle FTP$, side $f = 11$, $m\angle F = 33^\circ$ and $m\angle P = 41^\circ$. Find side p to the nearest tenth of an integer. c. 11.02
- _____ 4. In $\triangle HIJ$, side $h = 45$, $m\angle H = 115^\circ$ and $m\angle J = 16^\circ$. Find side j to the nearest tenth of an integer. d. 8.84
- _____ 5. In $\triangle XYZ$, $\sin X = 0.8$, $\sin Y = 1.9$ and $y = 21$. Find the length of x . e. 44.98
- _____ 6. In $\triangle EFG$, $\sin F = 2.4$, $\sin G = 2.7$ and $f = 7$. Find the length of g . f. 1.67
- _____ 7. In $\triangle LMN$, $\sin L = 49^\circ$, $\sin N = 81^\circ$ and $n = 19$. Find the length of l . g. 7.87
- _____ 8. In $\triangle MNO$, $\sin M = 143^\circ$, $\sin N = 22^\circ$ and $n = 28$. Find the length of m . h. 31.86
- _____ 9. In $\triangle ABC$, side $b = 14$, $m\angle B = 26^\circ$ and $m\angle C = 94^\circ$. Find side c to the nearest tenth of an integer. i. 13.25

