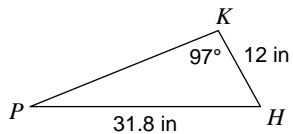


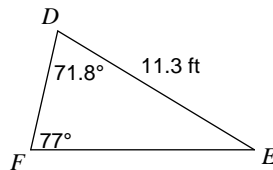
Law of Sines Practice

Solve each triangle. Round your answers to the nearest tenth.

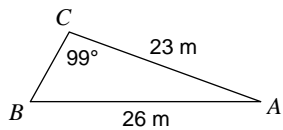
1)



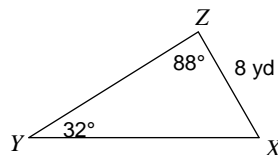
2)



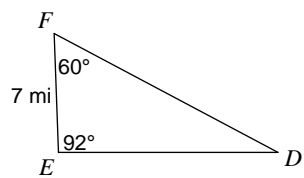
3)



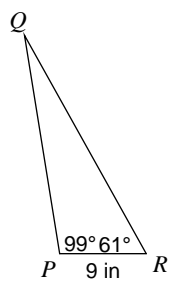
4)



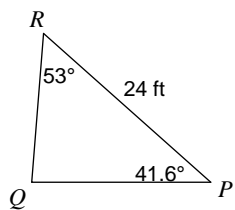
5)



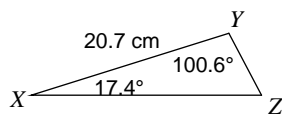
6)



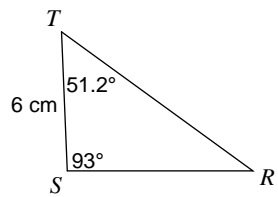
7)



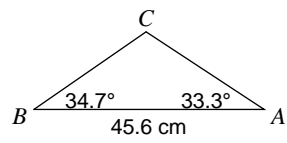
8)



9)



10)



11) In $\triangle EFD$, $m\angle E = 73^\circ$, $m\angle F = 23.9^\circ$, $e = 26$ m

12) In $\triangle PQR$, $m\angle Q = 56.6^\circ$, $p = 16.1$ yd, $q = 33$ yd

13) In $\triangle PQR$, $m\angle P = 52^\circ$, $r = 40$ cm, $p = 38$ cm

14) In $\triangle FDE$, $m\angle D = 91^\circ$, $m\angle E = 30^\circ$, $d = 14$ mi

15) In $\triangle ABC$, $m\angle A = 157^\circ$, $m\angle B = 19.1^\circ$, $a = 34.6$ m

16) In $\triangle ZXY$, $m\angle X = 58^\circ$, $z = 15$ yd, $x = 29$ yd

17) In $\triangle CAB$, $m\angle C = 29^\circ$, $b = 36$ mi, $c = 34$ mi

18) In $\triangle PKH$, $m\angle P = 81^\circ$, $m\angle H = 77.5^\circ$, $h = 32$ mi

19) In $\triangle CAB$, $m\angle C = 136^\circ$, $b = 12$ mi, $c = 27$ mi

20) In $\triangle KHP$, $m\angle K = 72^\circ$, $p = 34$ in, $k = 8$ in

21) In $\triangle HPK$, $m\angle H = 85^\circ$, $m\angle P = 68.7^\circ$, $h = 22.5$ in

22) In $\triangle PKH$, $m\angle K = 40^\circ$, $m\angle H = 65^\circ$, $p = 33$ yd

Answers to Law of Sines Practice

- 1) $m\angle H = 61^\circ$, $m\angle P = 22^\circ$, $h = 28$ in
- 3) $m\angle B = 60.9^\circ$, $m\angle A = 20.1^\circ$, $a = 9$ m
- 5) $m\angle D = 28^\circ$, $f = 12.9$ mi, $e = 14.9$ mi
- 7) $m\angle Q = 85.4^\circ$, $r = 19.2$ ft, $p = 16$ ft
- 9) $m\angle R = 35.8^\circ$, $s = 10.2$ cm, $t = 8$ cm
- 11) $m\angle D = 83.1^\circ$, $d = 27$ m, $f = 11$ m
- 13) $m\angle Q = 72^\circ$, $m\angle R = 56^\circ$, $q = 45.9$ cm
Or $m\angle Q = 4^\circ$, $m\angle R = 124^\circ$, $q = 3.4$ cm
- 15) $m\angle C = 3.9^\circ$, $c = 6$ m, $b = 29$ m
- 17) $m\angle A = 120.1^\circ$, $m\angle B = 30.9^\circ$, $a = 60.7$ mi
Or $m\angle A = 1.9^\circ$, $m\angle B = 149.1^\circ$, $a = 2.3$ mi
- 19) $m\angle A = 26^\circ$, $m\angle B = 18^\circ$, $a = 17$ mi
- 21) $m\angle K = 26.3^\circ$, $k = 10$ in, $p = 21$ in
- 2) $m\angle E = 31.2^\circ$, $e = 6$ ft, $d = 11$ ft
- 4) $m\angle X = 60^\circ$, $x = 13.1$ yd, $z = 15.1$ yd
- 6) $m\angle Q = 20^\circ$, $r = 23$ in, $p = 26$ in
- 8) $m\angle Z = 62^\circ$, $y = 23$ cm, $x = 7$ cm
- 10) $m\angle C = 112^\circ$, $b = 28$ cm, $a = 27$ cm
- 12) $m\angle P = 24^\circ$, $m\angle R = 99.4^\circ$, $r = 39$ yd
- 14) $m\angle F = 59^\circ$, $e = 7$ mi, $f = 12$ mi
- 16) $m\angle Z = 26^\circ$, $m\angle Y = 96^\circ$, $y = 34$ yd
- 18) $m\angle K = 21.5^\circ$, $p = 32.4$ mi, $k = 12$ mi
- 20) Not a triangle
- 22) $m\angle P = 75^\circ$, $h = 31$ yd, $k = 22$ yd