

Week 9 Practice - Ref. Ch. 6-1 & 6-2

Date _____ Period _____

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LOS (ASA, AAS) or LOC (SAS, SSS). Find each measurement indicated. Round your answers to the nearest tenth.

- 1) In $\triangle XYZ$, $m\angle X = 83^\circ$, $m\angle Y = 74^\circ$, $z = 13$
Find y
- 2) In $\triangle FDE$, $m\angle F = 114^\circ$, $m\angle D = 34^\circ$, $e = 18$
Find d
- 3) In $\triangle BCA$, $m\angle C = 11^\circ$, $m\angle A = 14^\circ$, $b = 42$
Find a
- 4) In $\triangle YZX$, $m\angle Y = 112^\circ$, $m\angle Z = 26^\circ$, $x = 26$
Find z
- 5) In $\triangle CAB$, $m\angle C = 154^\circ$, $m\angle A = 19^\circ$, $c = 47$
Find a
- 6) In $\triangle QRP$, $m\angle Q = 76^\circ$, $m\angle P = 41^\circ$, $r = 34$
Find q
- 7) In $\triangle TRS$, $m\angle T = 107^\circ$, $m\angle S = 34^\circ$, $r = 27$
Find t
- 8) In $\triangle PKH$, $m\angle P = 99^\circ$, $m\angle K = 53^\circ$, $h = 10$
Find k
- 9) In $\triangle ZXY$, $m\angle Z = 28^\circ$, $m\angle X = 34^\circ$, $z = 16$
Find x
- 10) In $\triangle PQR$, $m\angle P = 61^\circ$, $m\angle Q = 89^\circ$, $r = 8$
Find q
- 11) In $\triangle RST$, $m\angle S = 28^\circ$, $m\angle T = 12^\circ$, $s = 27$
Find t
- 12) In $\triangle HPK$, $m\angle P = 19^\circ$, $m\angle K = 59^\circ$, $p = 8$
Find k
- 13) In $\triangle ABC$, $b = 9$, $c = 29$, $m\angle A = 54^\circ$
Find a
- 14) In $\triangle EFD$, $f = 28$, $d = 26$, $m\angle E = 70^\circ$
Find e
- 15) In $\triangle PKH$, $k = 15$, $m\angle P = 96^\circ$, $h = 29$
Find p
- 16) In $\triangle TRS$, $m\angle T = 143^\circ$, $r = 18$, $s = 21$
Find t
- 17) In $\triangle BCA$, $c = 29$, $m\angle B = 75^\circ$, $a = 23$
Find b
- 18) In $\triangle PQR$, $r = 19$, $m\angle P = 17.5^\circ$, $q = 26.7$
Find p
- 19) In $\triangle PKH$, $m\angle P = 89^\circ$, $h = 29$, $k = 14$
Find p
- 20) In $\triangle RPQ$, $q = 21$, $p = 19$, $m\angle R = 97^\circ$
Find r
- 21) In $\triangle ZXY$, $y = 17$, $x = 11$, $m\angle Z = 119^\circ$
Find z
- 22) In $\triangle ABC$, $m\angle A = 130^\circ$, $b = 29$, $c = 25$
Find a
- 23) In $\triangle RST$, $m\angle R = 127^\circ$, $t = 10$, $s = 9$
Find r
- 24) In $\triangle RST$, $t = 14$, $s = 23$, $m\angle R = 18^\circ$
Find r
- 25) In $\triangle QRP$, $m\angle Q = 127^\circ$, $r = 20$, $p = 14$
Find $m\angle R$
- 26) In $\triangle ZXY$, $y = 24$, $m\angle Z = 123^\circ$, $x = 18$
Find $m\angle X$
- 27) In $\triangle BCA$, $a = 23$, $m\angle B = 120^\circ$, $c = 9$
Find $m\angle C$
- 28) In $\triangle RPQ$, $p = 28$, $q = 8$, $m\angle R = 89^\circ$
Find $m\angle P$
- 29) In $\triangle RST$, $m\angle R = 87^\circ$, $s = 26$, $t = 25$
Find $m\angle S$
- 30) In $\triangle DEF$, $m\angle D = 143^\circ$, $f = 18$, $e = 21$
Find $m\angle E$
- 31) In $\triangle XYZ$, $z = 16$, $x = 15$, $y = 29$
Find $m\angle Z$
- 32) In $\triangle RPQ$, $p = 29.7$, $q = 22.2$, $r = 24.8$
Find $m\angle P$
- 33) In $\triangle PKH$, $k = 15$, $p = 23$, $h = 13$
Find $m\angle H$
- 34) In $\triangle KHP$, $k = 14.1$, $p = 19.5$, $h = 26.7$
Find $m\angle P$
- 35) In $\triangle STR$, $r = 19$, $s = 26$, $t = 12$
Find $m\angle T$
- 36) In $\triangle PQR$, $q = 12$, $r = 7$, $p = 6$
Find $m\angle Q$

AC of LOS (SSA). Find each measurement indicated. Round your answers to the nearest tenth.

37) In $\triangle KHP$, $m\angle K = 29^\circ$, $p = 31$, $k = 20$
Find $m\angle P$

38) In $\triangle ZXY$, $m\angle Z = 47^\circ$, $y = 24$, $z = 19$
Find $m\angle Y$

39) In $\triangle XYZ$, $m\angle X = 39^\circ$, $z = 35$, $x = 33$
Find $m\angle Z$

40) In $\triangle PQR$, $m\angle P = 97^\circ$, $r = 27$, $p = 26$
Find $m\angle R$

41) In $\triangle CAB$, $m\angle C = 35^\circ$, $b = 32$, $c = 31$
Find $m\angle A$

42) In $\triangle RST$, $m\angle R = 39^\circ$, $t = 5$, $r = 4$
Find $m\angle T$

43) In $\triangle ZXY$, $m\angle Z = 149^\circ$, $y = 5$, $z = 11.6$
Find $m\angle Y$

44) In $\triangle FDE$, $m\angle F = 26^\circ$, $e = 31$, $f = 25$
Find $m\angle E$

45) In $\triangle PQR$, $m\angle P = 134^\circ$, $r = 35$, $p = 17$
Find $m\angle R$

46) In $\triangle XYZ$, $m\angle X = 112^\circ$, $z = 8$, $x = 37.7$
Find $m\angle Z$

47) In $\triangle ZXY$, $m\angle Z = 28^\circ$, $y = 23$, $z = 11$
Find $m\angle Y$

48) In $\triangle ABC$, $m\angle A = 16^\circ$, $c = 20$, $a = 14$
Find $m\angle B$

Answers to Week 9 Practice - Ref. Ch. 6-1 & 6-2 (ID: 1)

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|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 1) 32 | 2) 19 | 3) 24 | 4) 17 |
| 5) 34.9 | 6) 37 | 7) 41 | 8) 17 |
| 9) 19.1 | 10) 16 | 11) 12 | 12) 21.1 |
| 13) 24.8 | 14) 31 | 15) 34 | 16) 37 |
| 17) 32 | 18) 10.3 | 19) 32 | 20) 30 |
| 21) 24.3 | 22) 49 | 23) 17 | 24) 10.6 |
| 25) 31.5° | 26) 24° | 27) 15.9° | 28) 75° |
| 29) 47.7° | 30) 20° | 31) 21.4° | 32) 78.2° |
| 33) 32° | 34) 45.1° | 35) 25.3° | 36) 134.6° |
| 37) 48.7° or 131.3° | 38) 67.5° or 112.5° | 39) 41.9° or 138.1° | 40) Not a triangle |
| 41) 108.7° or 1.3° | 42) 51.9° or 128.1° | 43) 12.8° | 44) 32.9° or 147.1° |
| 45) Not a triangle | 46) 11.3° | 47) 79° or 101° | 48) 140.8° or 7.2° |