

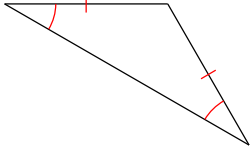
Week 7 Practice - Ref. Ch. 4-2/4-3

Date_____Period____

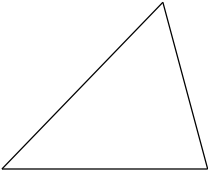
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Classify each triangle by its angles and sides. Equal sides and equal angles, if any, are indicated in each diagram.

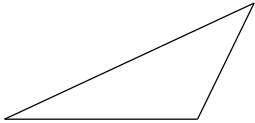
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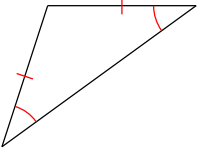
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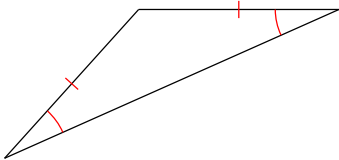
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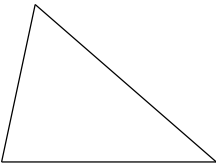
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5)



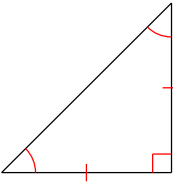
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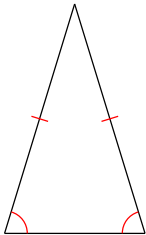
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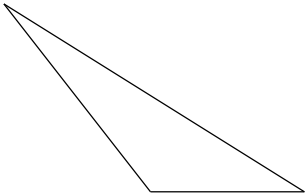
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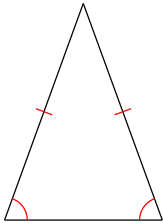
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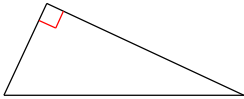
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11)

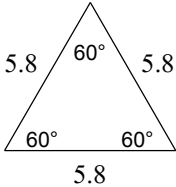


12)

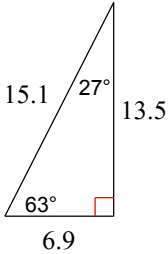


Classify each triangle by its angles and sides.

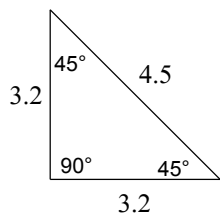
13)



14)

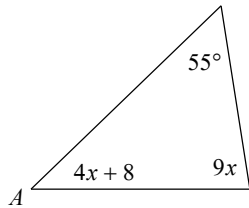


15)

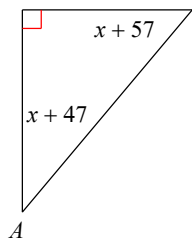


Find the measure of angle A.

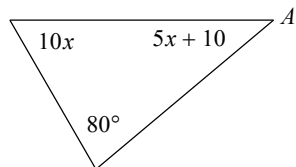
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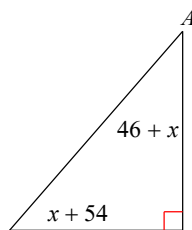
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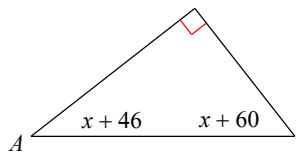
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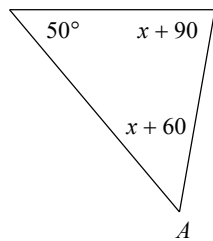
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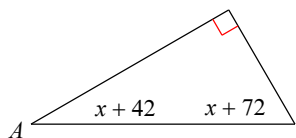
25)



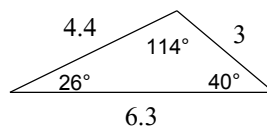
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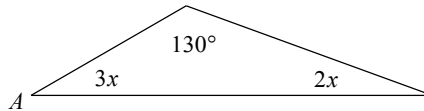
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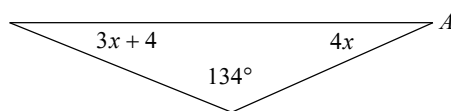
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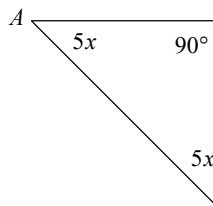
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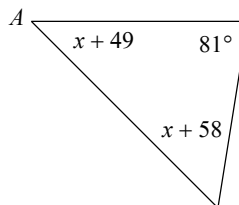
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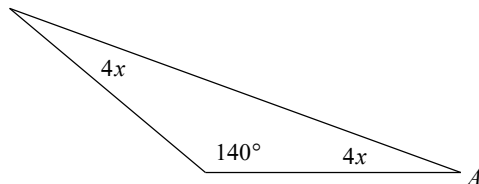
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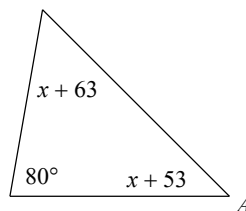
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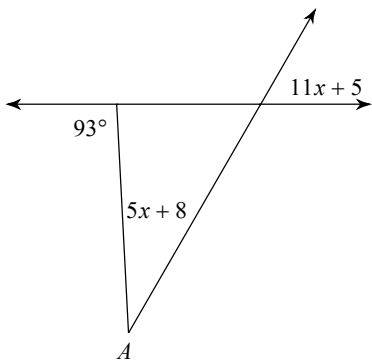
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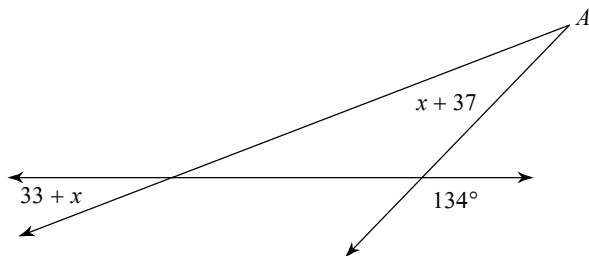
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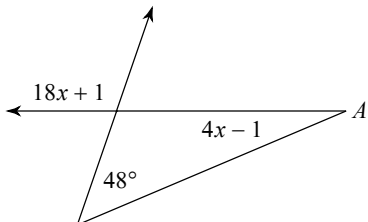
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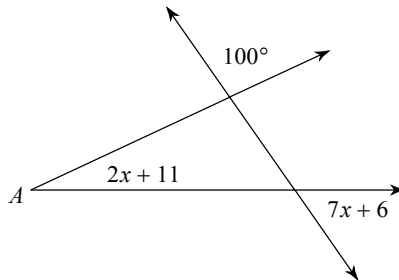
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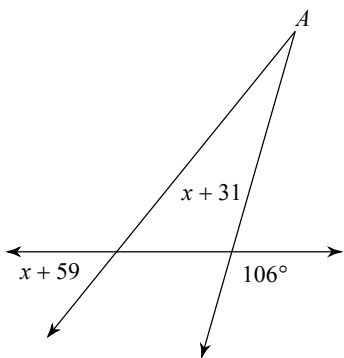
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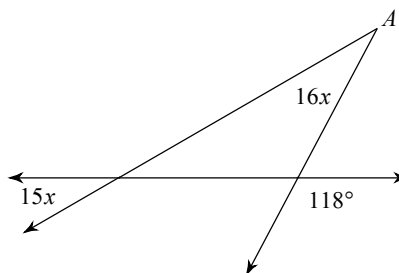
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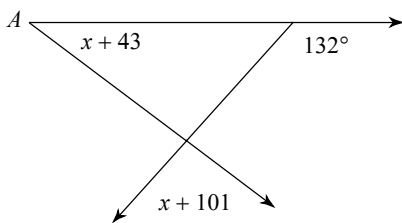
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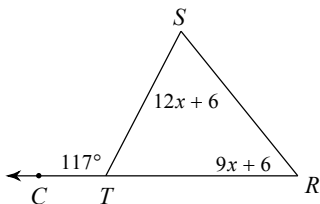
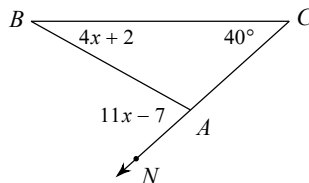
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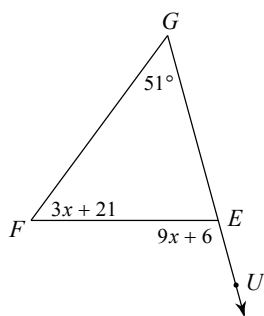
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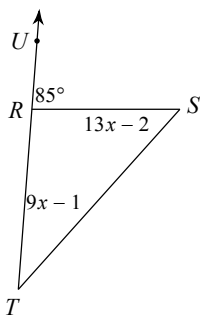
Solve for x . Tip: the exterior angle theorem may be useful.

37) Find $m\angle R$.38) Find $m\angle NAB$.

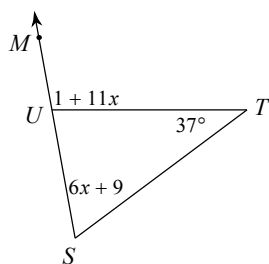
39) Find $m\angle F$.



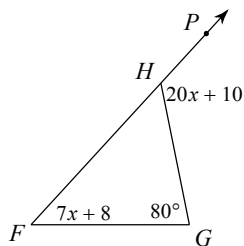
41) Find $m\angle S$.



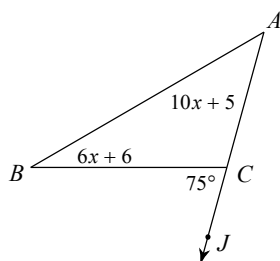
43) Find $m\angle MUT$.



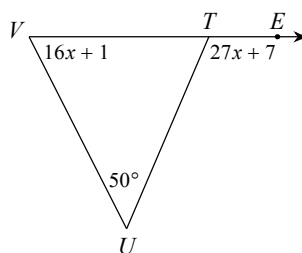
45) Find $m\angle F$.



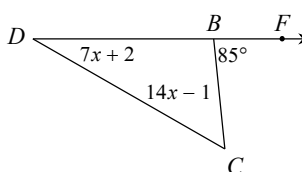
47) Find $m\angle A$.



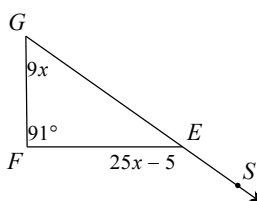
40) Find $m\angle V$.



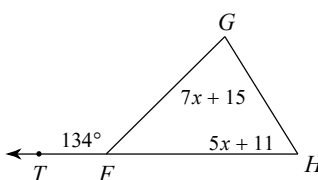
42) Find $m\angle C$.



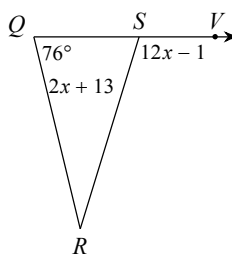
44) Find $m\angle SEF$.



46) Find $m\angle G$.

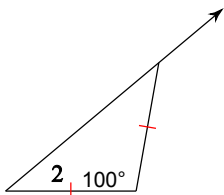


48) Find $m\angle R$.

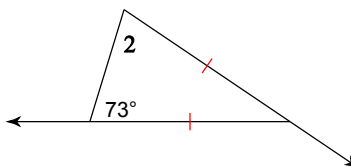


Find the value of x . Tip: the properties of isosceles and equilateral triangles may be useful.

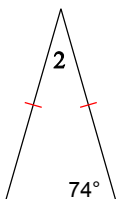
49) $m\angle 2 = 52 + x$



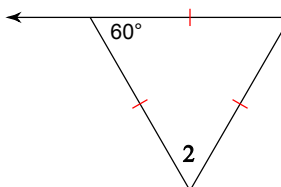
50) $m\angle 2 = 6x + 1$



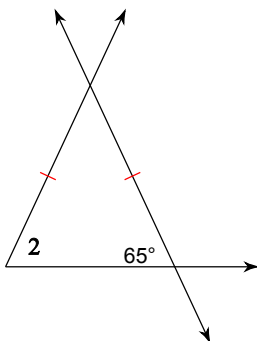
51) $m\angle 2 = x + 38$



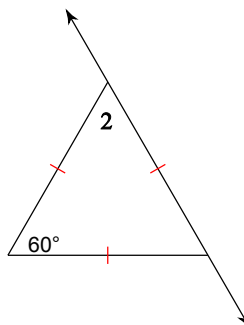
52) $m\angle 2 = 5x + 15$



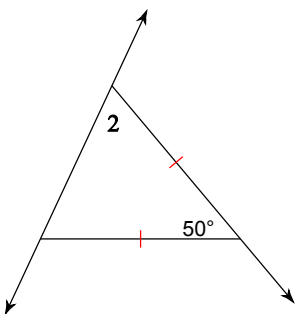
53) $m\angle 2 = 5x + 5$



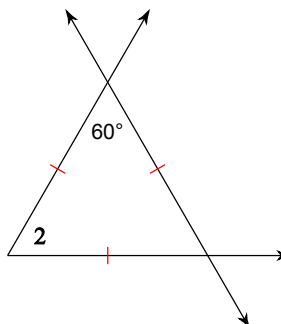
54) $m\angle 2 = 6x + 12$



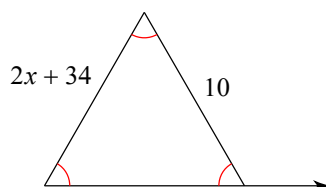
55) $m\angle 2 = x + 73$



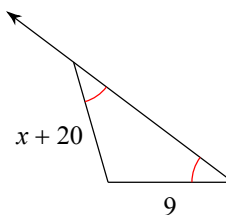
56) $m\angle 2 = 4x + 16$



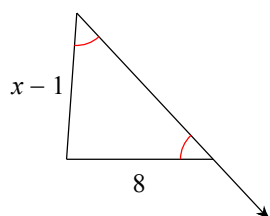
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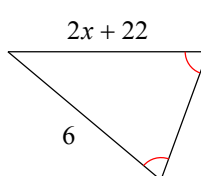
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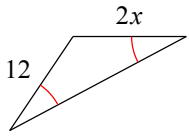
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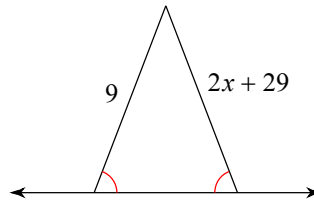
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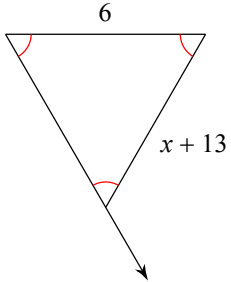
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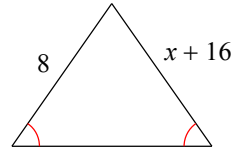
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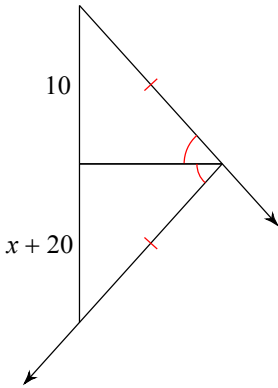
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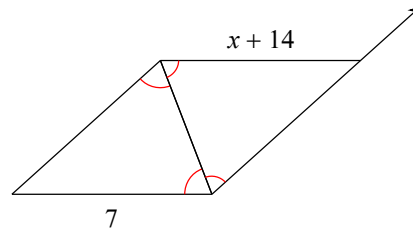
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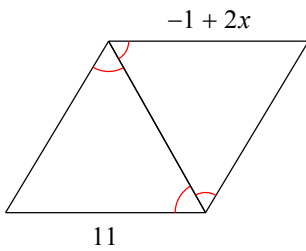
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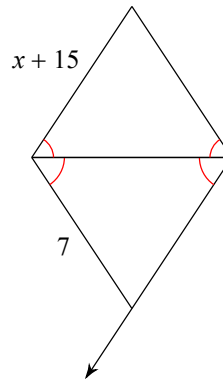
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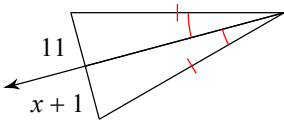
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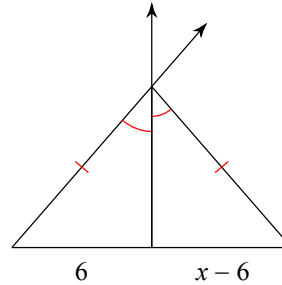
68)



69)



70)



State if the three numbers can be the measures of the sides of a triangle.

71) 13, 8, 12

72) 18, 6, 12

73) 6, 8, 3

74) 11, 7, 20

75) 8, 20, 9

76) 9, 10, 9

77) 10, 12, 2

78) 11, 19, 6

79) 13, 7, 9

80) 11, 7, 8

81) 12, 10, 10

82) 12, 12, 7

Answers to Week 7 Practice - Ref. Ch. 4-2/4-3 (ID: 1)

- | | | | |
|---------------------|--------------------|---------------------|---------------------|
| 1) obtuse isosceles | 2) acute scalene | 3) obtuse scalene | 4) obtuse isosceles |
| 5) obtuse isosceles | 6) acute scalene | 7) obtuse scalene | 8) right isosceles |
| 9) acute isosceles | 10) obtuse scalene | 11) acute isosceles | 12) right scalene |
| 13) equilateral | 14) right scalene | 15) right isosceles | 16) obtuse scalene |
| 17) 44° | 18) 30° | 19) 40° | 20) 24° |
| 21) 40° | 22) 45° | 23) 41° | 24) 45° |
| 25) 38° | 26) 20° | 27) 50° | 28) 45° |
| 29) 30° | 30) 33° | 31) 25° | 32) 23° |
| 33) 25° | 34) 23° | 35) 32° | 36) 37° |
| 37) 51° | 38) 70° | 39) 54° | 40) 65° |
| 41) 50° | 42) 55° | 43) 100° | 44) 145° |
| 45) 50° | 46) 78° | 47) 45° | 48) 31° |
| 49) -12 | 50) 12 | 51) -6 | 52) 9 |
| 53) 12 | 54) 8 | 55) -8 | 56) 11 |
| 57) -12 | 58) -11 | 59) 9 | 60) -8 |
| 61) 6 | 62) -10 | 63) -7 | 64) -8 |
| 65) -10 | 66) -7 | 67) 6 | 68) -8 |
| 69) 10 | 70) 12 | 71) Yes | 72) No |
| 73) Yes | 74) No | 75) No | 76) Yes |
| 77) No | 78) No | 79) Yes | 80) Yes |
| 81) Yes | 82) Yes | | |