

Study Guide #4

Lessons Covered: #13 Word Problems with Angles, #14 Parallels and Transversals, #15 Triangle Sum Theorem, #16 Exterior Angle Theorem

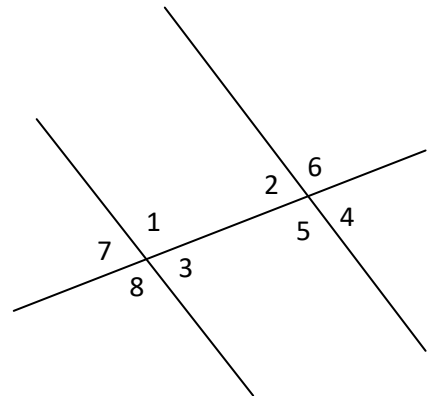
Name: _____ Date: _____ Period: _____

- | | |
|--|---|
| <p>1. An angle is 12° more than three times its supplement. Find the angle? Find the supplement?</p> | <p>2. An angle is 15° less than twice its complement. What's the angle? What is the complement?</p> |
|--|---|

- | | |
|--|---|
| <p>3. An angle is 5° less than four times its supplement. Find the angle? Find the supplement?</p> | <p>4. An angle is 30° less than three its complement. What's the angle? What is the complement?</p> |
|--|---|

Name the relationship for each angle pair

5. $\angle 7$ & $\angle 4$ _____
6. $\angle 8$ & $\angle 5$ _____
7. $\angle 3$ & $\angle 7$ _____
8. $\angle 1$ & $\angle 2$ _____
9. $\angle 2$ & $\angle 3$ _____
10. $\angle 2$ & $\angle 7$ _____



11. If $m\angle 1 = 3x + 14$, $m\angle 2 = 2x + 6$, find all angles

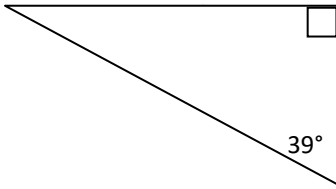
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|------------------|------------------|
| $\angle 1$ _____ | $\angle 2$ _____ |
| $\angle 3$ _____ | $\angle 4$ _____ |
| $\angle 5$ _____ | $\angle 6$ _____ |
| $\angle 7$ _____ | $\angle 8$ _____ |

12. If $m\angle 7 = 4x + 7$, $m\angle 4 = 5x - 1$, find all angles

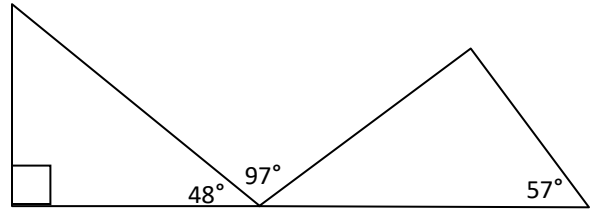
- | | |
|------------------|------------------|
| $\angle 1$ _____ | $\angle 2$ _____ |
| $\angle 3$ _____ | $\angle 4$ _____ |
| $\angle 5$ _____ | $\angle 6$ _____ |
| $\angle 7$ _____ | $\angle 8$ _____ |

Find the all the angles in each diagram

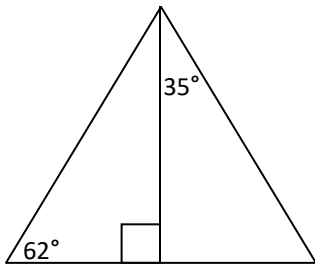
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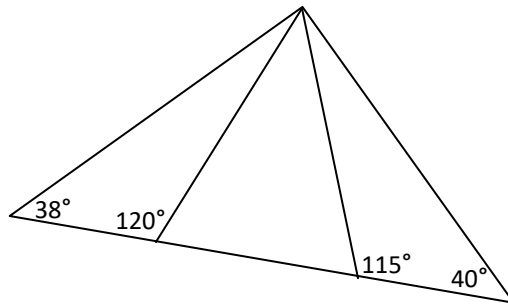
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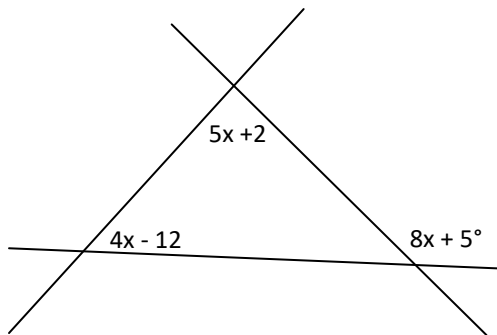
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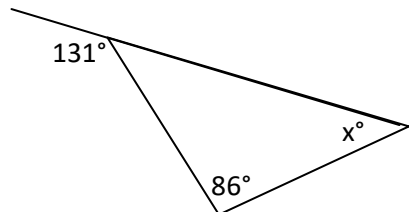
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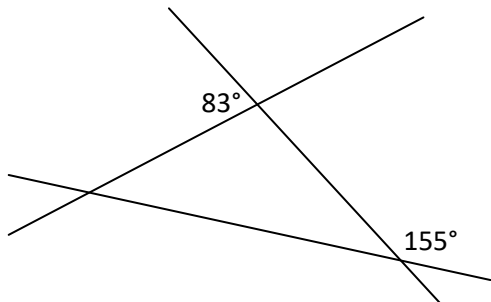
17.



18.



19.



5 review questions from lessons 1-12