**M7+ Unit 8: Angles and Triangles STUDY GUIDE**

**Short Answer**

 1. Classify the triangle by its sides and angles.

|  |
| --- |
|  |
| not drawn to scale |

 2. In the figure, . Find the measure of .



 3. Find the value of the variable. The diagram is not to scale.



 4. Find the values of *x*, *y*, and *z*. The diagram is not to scale.



 5. Find the value of *x*. The diagram is not to scale.



 6. Given   and , find ** and **

 7. Classify *ABC* by its angles, when *m**A* = 22, *m**B* = 84, and *m**C* = 74.

 8. Find the values of *x* and *y*. The diagram is not to scale.



**In the diagram *a* || *b*. Use the diagram to answer the question.**

**(Diagram not to scale.)**



 9. If  and , what is the measure of ?

 10. Name the corresponding angle to 2.

 11. If  = 65, what is ?

 12. Name the alternate interior angle to 4.

 13. **a.** Find the value of *a*.

**b.** Find the value of the marked angles.



 14. Name two angles adjacent to .



 15. Find the measure of *AED* for *m**BEC* = 66.



 16. . Find the value of *x* for *p* to be parallel to *q*. The diagram is not to scale.



 17. Find the value of the variable if  ** and ** The diagram is not to scale.

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 18. Line *r* is parallel to line *t*. Find *m*5. The diagram is not to scale.



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**Answer Section**

**SHORT ANSWER**

 1. equilateral, acute

 2. 50

 3. 19

 4. 

 5. 62

 6. 61

 7. acute

 8. *x* = 67, *y* = 60

 9. 60

 10. 6

 11. 65

 12. 5

 13. 20; 126º

 14.  and 

 15. 66

 16. 50

 17. 7

 18. 131