**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