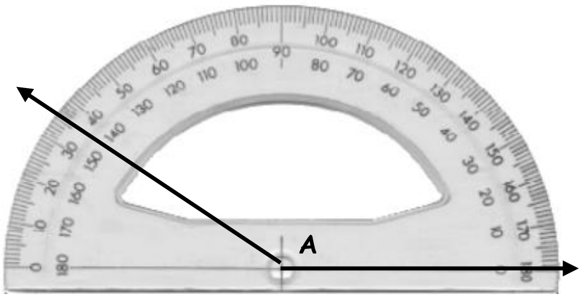
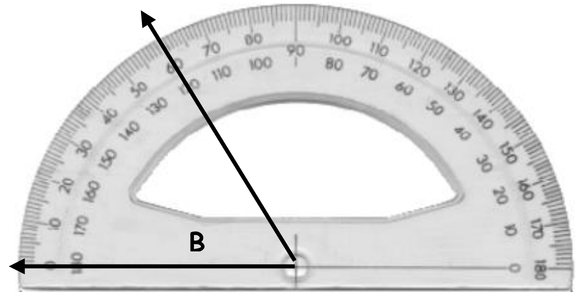
Name: ______________________________**Date:**____________**Period:**_______

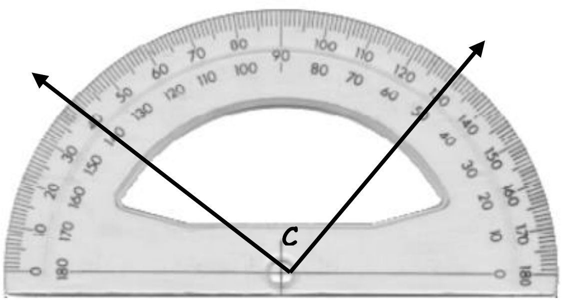
Calculator Inactive

Math 7+ UNIT 9 Geometric Properties Unit Review

Classify each angle shown and write the given measures in the answer box provided.





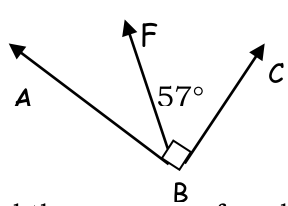


Final Answers

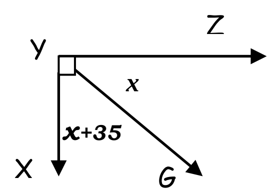
1. Acute Angle: ______
2. Obtuse Angle:______
3. Right Angle: ______
4. *m* of angle A: ______
5. *m* of angle B: ______
6. *m* of angle C: ______

Find the missing angle measurement. Then identify each set of angles as complementary or supplementary by circling the correct identification.

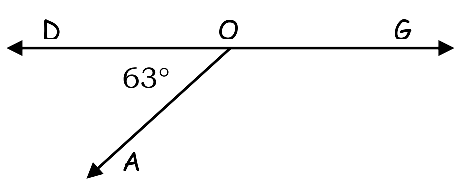
DO NOT USE A PROTRACTOR on #7 – 14.



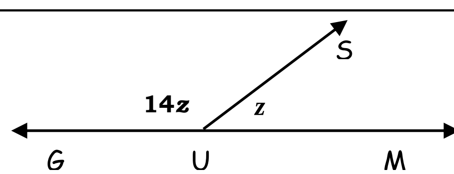
7. Find the measure of angle ***FBA***.
8. Are angle ABF and angle FBC Complementary or Supplementary?



9. Find the measure of angle ***ZYG***.
10. Find the measure of angle ***GYX***



11. Find the measure of angle ***GOA***.
12. Are angle DOA and angle AOG Complementary or Supplementary?



13. Find the measure of angle ***SUM.***
14. Find the measure of angle ***GUS***

Final Answers:

7. *m* ∠FAB:= ________
8. ________________
9. *m* ∠ZYG=________
10. *m*∠GYX=________
11. *m*∠GOA=________
12. ________________
13. *m*∠SUM=________
14. *m*∠GUS=________

Railroad tracks connecting cities A, B, and C form a triangle. Angle A measures 44° and Angle B measures 80.25°. Find the measurement of angle C and identify the triangle as Obtuse, Acute, or Right.

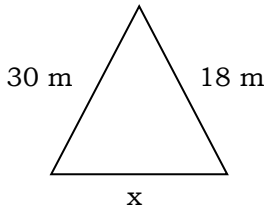
15. Find the measure of angle C.

16. Classify the triangle according to its <u>angles</u>.

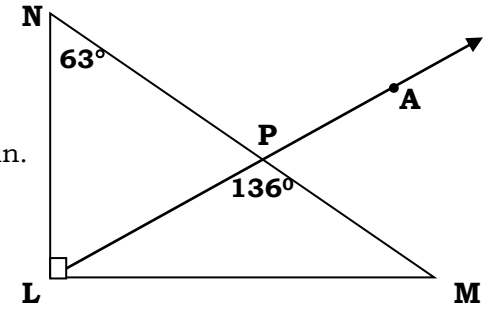
The sum of the lengths of the sides of this triangle is 52 m. Find the length of the missing side and classify the triangle as Equilateral, Scalene, or Isosceles.

17. Find the length of the missing side.

18. Classify the triangle according to its <u>sides</u>.



19-25. Use the diagram to find the missing angle measures As listed in the answer column.



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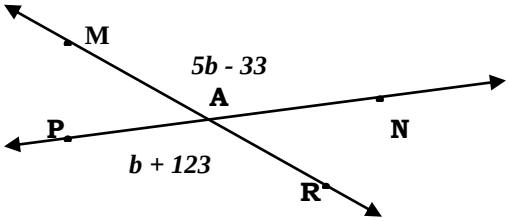
26. Find $m\angle MAN$.

27. Find $m\angle MAP$.



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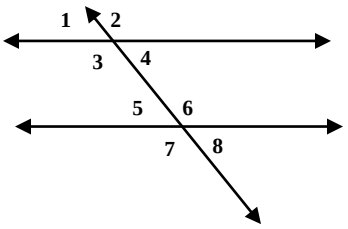
28. Using the figure, describe the relationship between $\angle 6$ and $\angle 7$

29 Using the figure, describe the relationship between $\angle 1$ and $\angle 5$



Final Answers:

15. *m* of angle C: _____

16. _____

17. x = :_____

18. _____

19. $m\angle APN$ = _____

20. $m\angle NPL$ = _____

21. $m\angle NLP$ = _____

22. $m\angle PLM$ = _____

23. $m\angle LMP$ = _____

24. $m\angle APM$ = _____

25. $m\angle NLM$ = _____

26._____

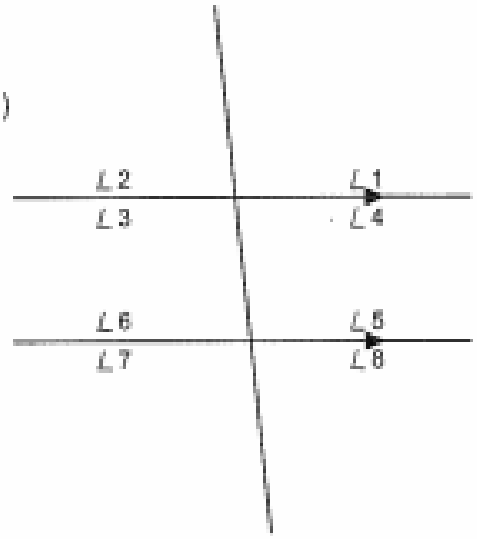
27._____

28._____

29._____

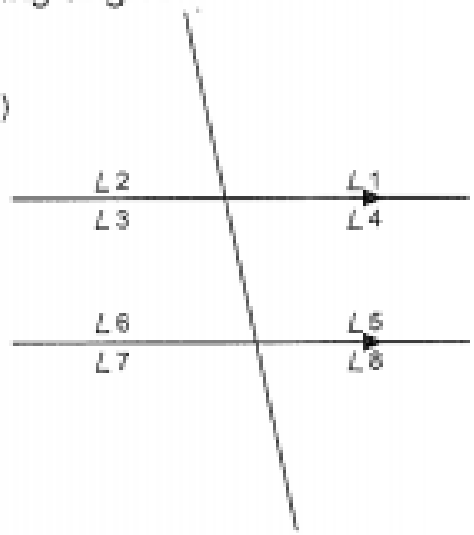
Find all of the missing angles.

1)



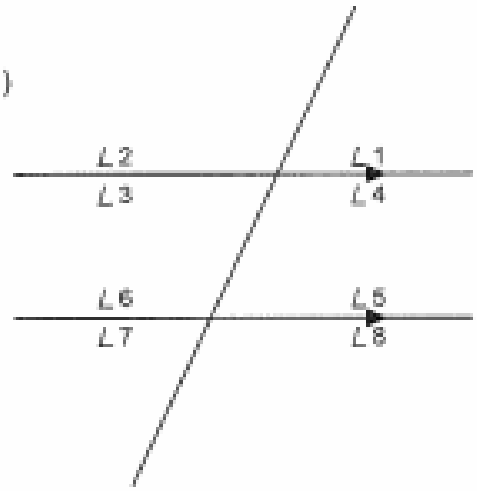
∠1 = 98°
∠2 = _____
∠3 = _____
∠4 = _____
∠5 = _____
∠6 = _____
∠7 = _____
∠8 = _____

2)



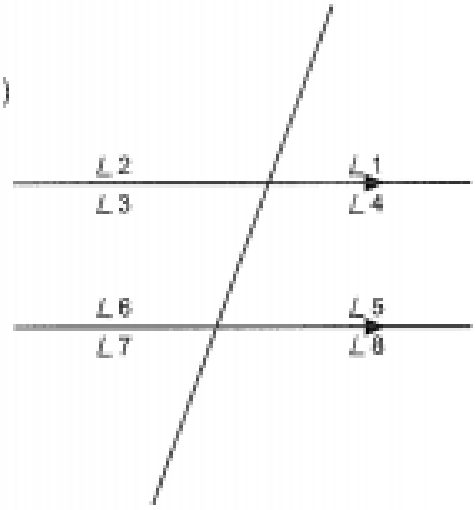
∠1 = _____
∠2 = _____
∠3 = 102°
∠4 = _____
∠5 = _____
∠6 = _____
∠7 = _____
∠8 = _____

3)



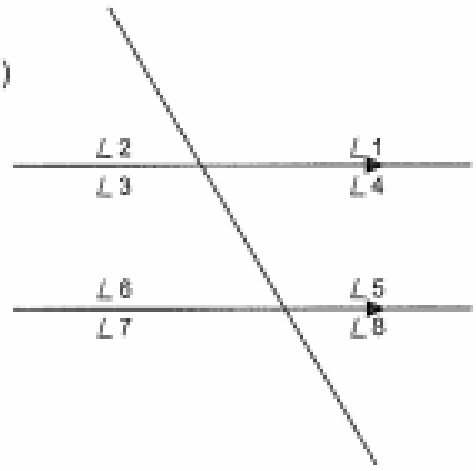
∠1 = _____
∠2 = 115°
∠3 = _____
∠4 = _____
∠5 = _____
∠6 = _____
∠7 = _____
∠8 = _____

4)



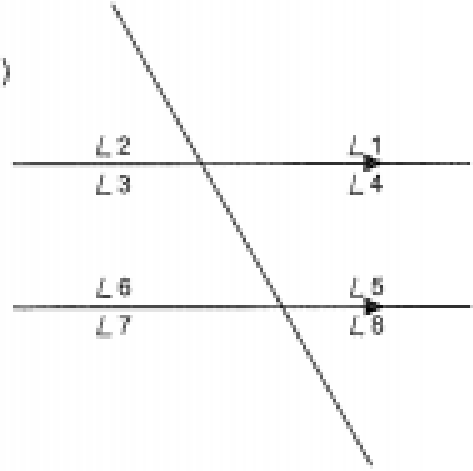
∠1 = _____
∠2 = _____
∠3 = _____
∠4 = _____
∠5 = _____
∠6 = _____
∠7 = _____
∠8 = 110°

5)



∠1 = _____
∠2 = _____
∠3 = _____
∠4 = _____
∠5 = _____
∠6 = _____
∠7 = 120°
∠8 = _____

6)



∠1 = _____
∠2 = _____
∠3 = _____
∠4 = _____
∠5 = _____
∠6 = 61°
∠7 = _____
∠8 = _____