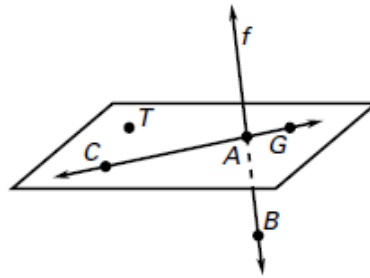Name _____   Date _____

Assignment 9 Chapter 1 Test. Show all work for full credit.
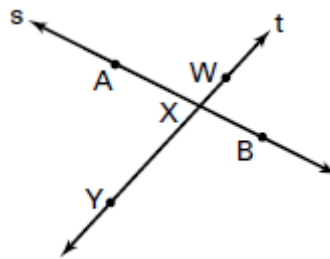
In Exercises 1-3, use the diagram.

1. Give two other names for $\overleftrightarrow{AB}$.

2. Name three points that are collinear.

3. Name a point not coplanar with
   A, C, and T.

In Exercises 4-6, use the diagram.

4. What is another name for $\overleftrightarrow{XW}$?

5. Name all rays with endpoint X.

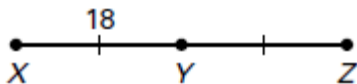6. Give another name for $\overleftrightarrow{WX}$.

Measure the length of the segment to the nearest tenth of a centimeter.

7. •————————————•   8. •————————•

Find the indicated length.

9. YZ 10. LN

```
     18                              25        12
•————+————•————+————•        •————————————•————•
X         Y         Z        L            M    N
```
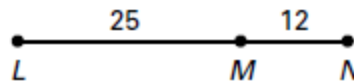
Find the exact distance between the points.
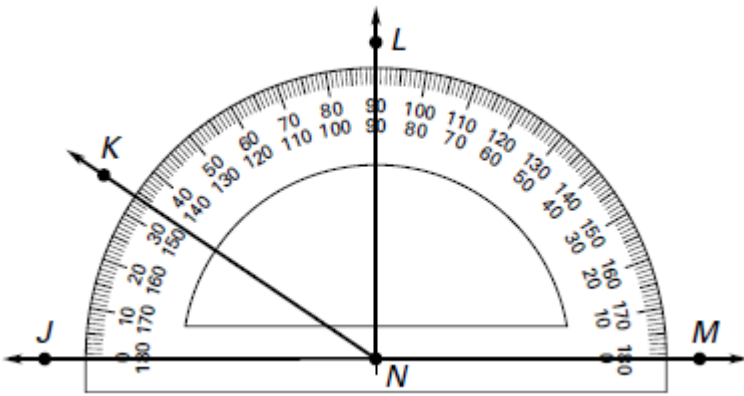
11. $A(2, 3)$ and $B(4, 9)$ 12. $F(-4, 6)$ and $G(1, 8)$

Find the coordinates of the midpoint of the segment with the given endpoints.

13. $A(-1, 4)$ and $B(3, 6)$ 14. $C(2, -3)$ and $D(-4, -1)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

_____

14. _____

_____

Assignment 9 Chapter 1 Test. Show all work for full credit.

In Exercises 15-17, use the diagram to find the measure of the
indicated angle. Then classify the angle.

15. ∠ JNK   **16.** ∠ KNM   **17.** ∠ LNM

In Exercises 18-20, ∠ 1 and ∠ 2 are complementary angles.
Given the measure of ∠ 1, find $m \angle 2$.

18. $m \angle 1 = 87°$ **19.** $m \angle 1 = 15°$ **20.** $m \angle 1 = 71°$

In Exercises 21-23, ∠ 1 and ∠ 2 are supplementary angles.
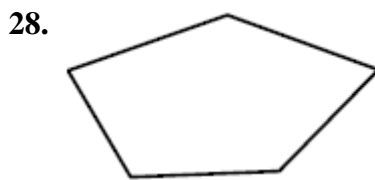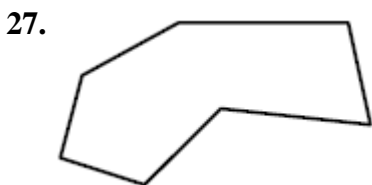Given the measure of ∠ 1, find $m \angle 2$.

21. $m \angle 1 = 8°$ **22.** $m \angle 1 = 87°$ **23.** $m \angle 1 = 115°$

In Exercises 24-26, use the diagram. Tell whether the angles
are *vertical angles*, a *linear pair*, or *neither*.
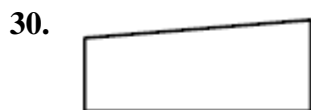
24. ∠ 1 and ∠ 2

25. ∠ 2 and ∠ 5

26. ∠ 1 and ∠ 4
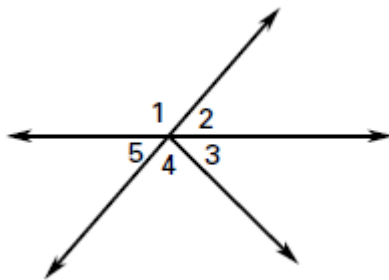
Classify the polygon by the number of sides.

27.   **28.**

Tell whether the polygon is convex or concave.

29.   **30.**

Answers

15. _____

_____

16. _____

_____

17. _____

_____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

27. _____

28. _____

29. _____

30. _____