

MATH 8 GEOMETRY REVIEW

Name _____

Date _____

Part 1.

1. Using symbols, write "the line NM ".

- a) \overline{NM} b) \overrightarrow{NM} c) \widehat{NM} d) $\odot NM$ e) \overleftrightarrow{NM}

1. _____

2. Using symbols, write "the ray CD ".

- a) \overleftrightarrow{CD} b) \overline{CD} c) $\odot CD$ d) \widehat{CD} e) \overrightarrow{CD}

2. _____

3. Using symbols, write "the line segment AB ".

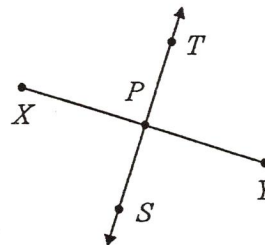
- a) \overline{AB} b) \overleftrightarrow{AB} c) AB d) \overrightarrow{AB} e) \widehat{AB}

3. _____

4. In the figure, name three collinear points.

- a) T, X, Y b) S, T, X c) S, P, T
 d) T, P, X e) S, P, Y

4. _____



5. In the figure, name the point of intersection of \overleftrightarrow{ST} and \overleftrightarrow{XY} .

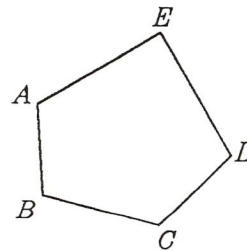
- a) P b) Y c) T d) S e) X

5. _____

6. In the figure, what is the vertex of $\angle ABC$?

- a) E b) C c) A d) B e) D

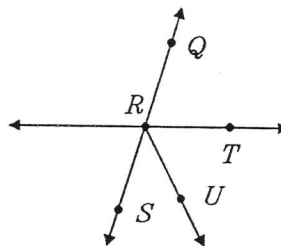
6. _____



7. In the figure, \overleftrightarrow{RT} bisects \overline{QS} . What is the point R called?

- a) vertex point
 b) center point
 c) midpoint
 d) coordinate point
 e) endpoint

7. _____



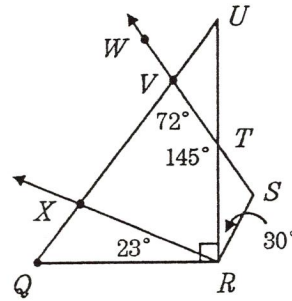
8. How many lines pass through two distinct points?

- a) 0 b) 1 c) 2 d) infinite e) 3

8. _____

9. In the figure, which of the following is a straight angle.

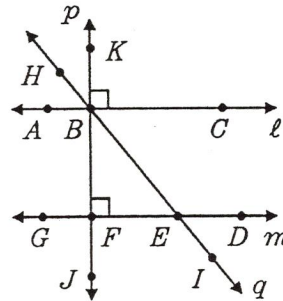
- a) $\angle TSR$ b) $\angle QRU$ c) $\angle WVX$
 d) $\angle XVT$ e) $\angle UTR$



9. _____

10. In the figure, name two supplementary angles.

- a) $\angle GFJ$ and $\angle JFD$
 b) $\angle CBK$ and $\angle GEI$
 c) $\angle CBE$ and $\angle FEB$
 d) $\angle ABH$ and $\angle HBK$
 e) $\angle HBK$ and $\angle ABK$



10. _____

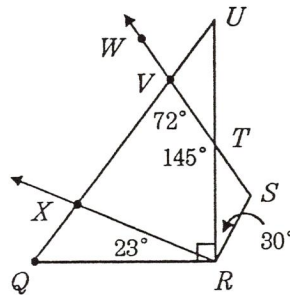
11. An angle which measures 81° is a(n) _____ angle.

- a) right angle b) obtuse angle c) acute angle
 d) vertical angle e) straight angle

11. _____

12. Name a pair of congruent angles in the figure shown.

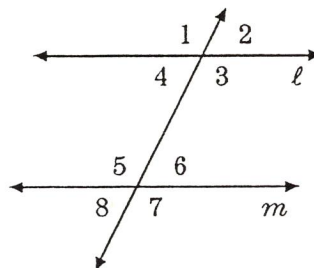
- a) $\angle UQR$ and $\angle QRU$
 b) $\angle WTR$ and $\angle WTU$
 c) $\angle WVU$ and $\angle WVQ$
 d) $\angle SRU$ and $\angle QRU$
 e) $\angle STR$ and $\angle VTU$



12. _____

13. Which of the following choices gives a pair of adjacent angles in the figure?

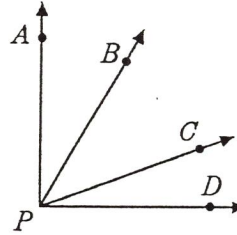
- a) $\angle 6$ and $\angle 3$ b) $\angle 5$ and $\angle 6$
 c) $\angle 1$ and $\angle 3$ d) $\angle 5$ and $\angle 7$
 e) $\angle 8$ and $\angle 4$



13. _____

14. In the figure, $m\angle APD = 90$, $m\angle BPD = 60$, and $m\angle APC = 70$.
What is the measure of $m\angle BPC$?

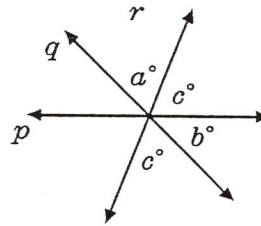
- a) 20 b) 40 c) 45 d) 60 e) 30



14. _____

15. In the figure, three lines intersect at a point to form the angles shown.
What is the value of c in terms of b ?

- a) $90 - \frac{1}{2}b$ b) $180 - 2b$ c) $2b$
d) $180 - \frac{1}{2}b$ e) $90 - 2b$



15. _____

16. If the sum of two angles is 90° , then the angles are _____.

- a) congruent b) linear c) complementary
d) supplementary e) adjacent

16. _____

17. If an angle has a measure of 47° , what is the measure of its complement?

- a) 85° b) 40° c) 137° d) 43° e) 92°

17. _____

18. If two angles are supplementary, then the sum of their degree measures is _____.

- a) 90° b) 120° c) 180° d) 60° e) 360°

18. _____

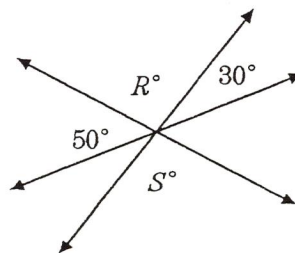
19. If an angle has a measure of 72, what is the degree measure of its supplement?

- a) 78 b) 64 c) 142 d) 108 e) 18

19. _____

20. In the figure, three lines intersect at a point. If four of the six non-overlapping angles have the measures as shown, find $R + S$.

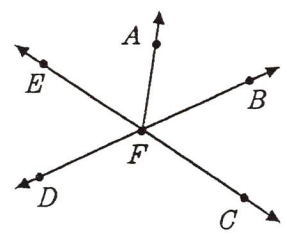
- a) 130 b) 80 c) 160
d) 200 e) 100



20. _____

21. \overrightarrow{FA} bisects $\angle EFB$, $\angle EFB$ and $\angle DFC$ are vertical angles with $m\angle DFC = 2y - 10$, and $m\angle EFB = y + 36$. Find $m\angle AFB$.

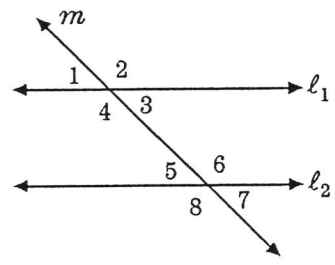
- a) 43 b) 123 c) 79
- d) 41 e) 57



21. _____

22. In the figure, $\angle 3$ and $\angle 7$ are called _____.

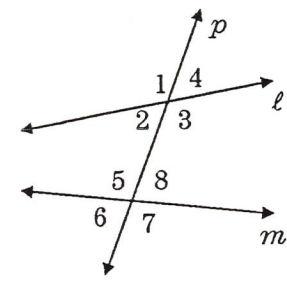
- a) alternate interior angles
- b) transposed angles
- c) right angles
- d) corresponding angles
- e) vertical angles



22. _____

23. In the figure, $\angle 3$ and $\angle 5$ are called _____ angles.

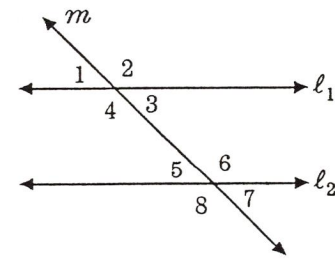
- a) alternate exterior
- b) vertical
- c) alternate interior
- d) supplementary
- e) corresponding



23. _____

24. In the figure, $\angle 4$ and $\angle 6$ are called _____ angles.

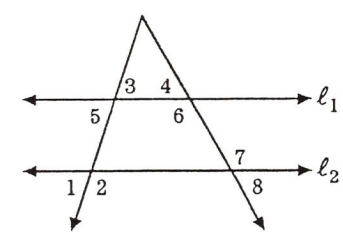
- a) supplementary
- b) corresponding
- c) alternate exterior
- d) alternate interior
- e) vertical



24. _____

25. In the figure, $l_1 \parallel l_2$. Which of the following pairs of angles are supplementary?

- a) 4 and 7 b) 1 and 4
- c) 3 and 5 d) 1 and 8
- e) 6 and 7



25. _____