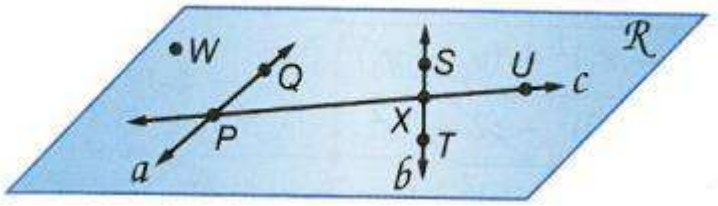
Chapter 1 Review Packet **Name:** _____

Use the figure to answer questions 1-4:



1. Name the intersection of lines *a* and *c*.

2. Give another name for line *b.*

3. Name a point that is not contained in any of the three lines *a, b* or *c.*

4. Give another name for plane WPX.

Find the value of the variable <u>and</u> XP, if X is between P and Q.

5. XQ = 3x **XP** = 7x – 2 **PQ** = 6x + 16

Find the distance between each pair of points.

6. A(–3, 1) and B(7, 13)

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

7. L(–3, 16) and M(17, 4)

Find the coordinates of the missing endpoint if M is the midpoint of $\overline{XY}$.

8. X(–11, –6) and M(15, 4)

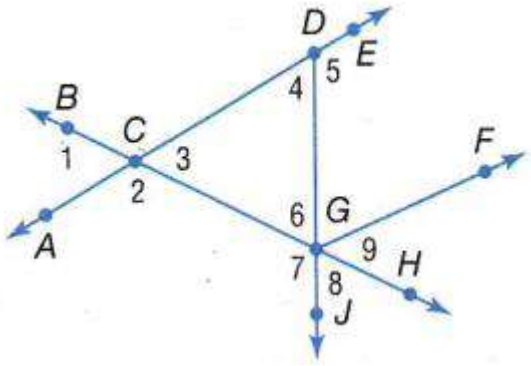
Refer to the figure for questions 9-12.

9. Name the vertex of $\angle 7$

10. Write another name for $\angle 4$

11. Name the sides of $\angle 2$

12. Name a pair of opposite rays.

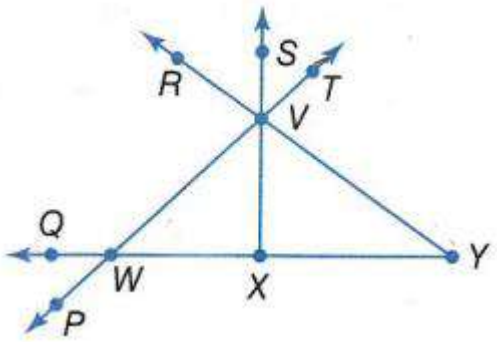


Refer to the figure for questions 13-15.

13. Name an angle supplementary to $\angle TVY$.

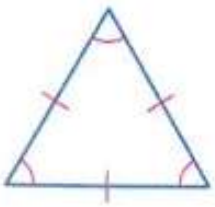
14. Name a pair of vertical angles with vertex W.

15. If $m\angle SXW = 5x - 16$, find the value of x so that $\overline{SX} \perp \overline{WY}$.

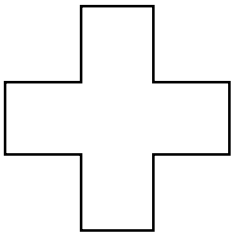


Name each polygon by its number of sides. Then classify it as *convex* or *concave* and *regular* or *irregular*.

16.



17.

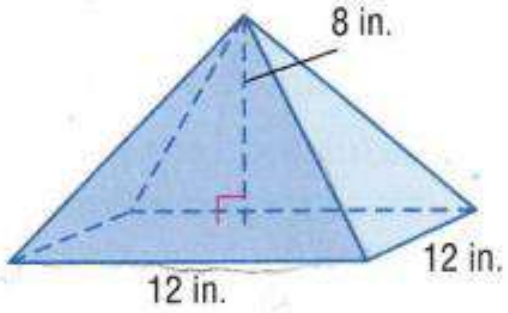


18. A <u>circle</u> has a circumference of 12 inches. What is its diameter? (Formula: C = 2πr)

19. A <u>square</u> has a side length of 9.6 cm. What is its area? (Formula: A = bh)

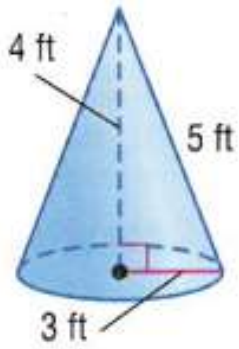
Find the surface area and volume of each solid. DON'T FORGET UNITS!

20.



Surface Area = _____ Volume = _____

21.



Surface Area = _____ Volume = _____