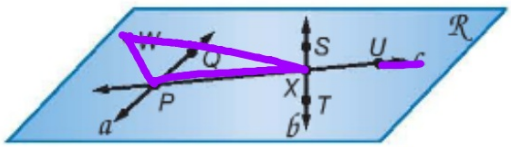
Geometry Ch. 1 Review
Practice problems (whiteboards)

Ch. 1 test Tuesday
- formulas will not be provided
- 2-3 constructions

Quiz 1.7 results

1-1 Points, Lines, and Planes

Use the figure to complete each of the following.



5. Name the intersection of lines *a* and *c*.
6. Give another name for line *b*.
7. Name a point that is not contained in any of the three lines *a*, *b*, or *c*.
8. Give another name for plane *WPX*.

Reminder: How to name

lines

segments

rays

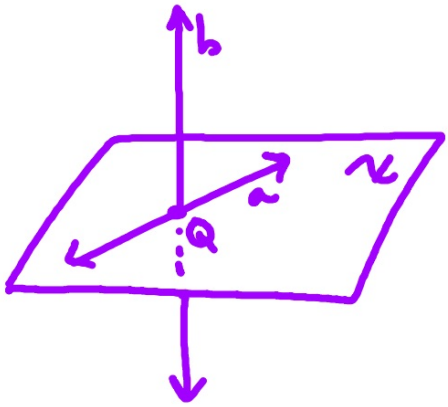
angles

planes

points

Draw & label

Plane X contains line a, line b intersects line a at point Q, but line b is not in plane X.



Whiteboards

1-3 Distance and Midpoints

Find the distance between each pair of points.

16. $A(-3, 1)$, $B(7, 13)$ 15.6

17. $P(2, -1)$, $Q(10, -7)$

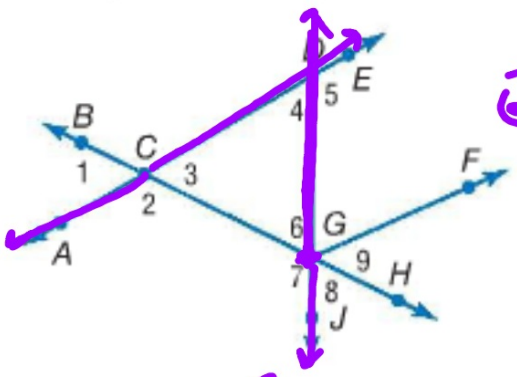
Find the coordinates of the midpoint of a segment with the given endpoints.

18. $L(-3, 16)$, $M(17, 4)$ (7, 10)

19. $C(32, -1)$, $D(0, -12)$

1-4 Angle Measure

For Exercises 23–26, refer to the figure below.



23. Name the vertex of $\angle 7$.

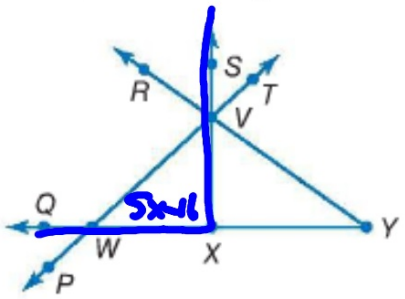
24. Write another name for $\angle 4$.

25. Name the sides of $\angle 2$.

26. Name a pair of opposite rays.

1-5 Angle Relationships

For Exercises 28–30, refer to the figure below.



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

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

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

$5x - 16 = 90$
$+16 \quad +16$
$\frac{5x}{5} = \frac{106}{5}$
$x = 21.2$

Complementary
Supplementary

1-6 Two-Dimensional Figures

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

32. 

33. 

12-gon

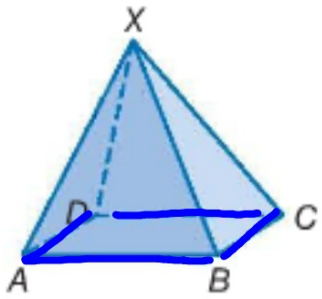
34. Find the perimeter of quadrilateral $ABCD$ with vertices $A(-3, 5)$, $B(0, 5)$, $C(2, 0)$, and $D(-5, 0)$.

20.8

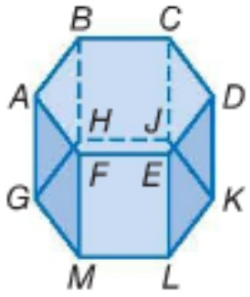
1-7 Three-Dimensional Figures

Identify each solid. Name the bases, faces, edges, and vertices.

36.



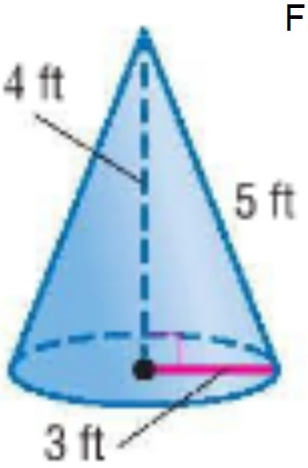
37.



Base...category

40.

Find V and SA

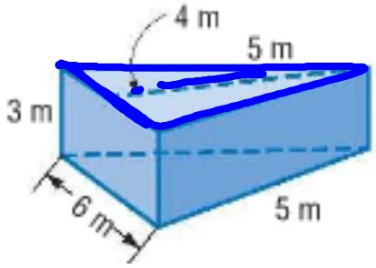


$V = 37.7\ ft^3$

$SA = 75.4\ ft^2$

Find V and SA

41.



$V = B \cdot h$

$= (\frac{1}{2} b h) \cdot h$

$= \left(\frac{1}{2} \cdot 6 \cdot 4\right) \cdot 3 = 36\ m^3$

$SA = p \cdot h + 2B$

$= (5+5+6)3 + 2\left(\frac{1}{2} \cdot 6 \cdot 4\right)$

$= 72\ m^3$