

# Geometry Semester#1 Final Study Guide - Chapters 1-6

#1-3: Use this diagram to answer True or False:



1.  $\overline{DC}$  is perpendicular to line  $n$ .

**TRUE**

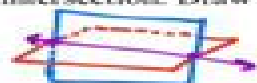
2.  $\angle FBG$  and  $\angle FBH$  are complementary.

**FALSE**

3. Points  $D$ ,  $J$ , and  $F$  are collinear.

**FALSE**

4. Two distinct planes intersect. Describe their intersection. Draw a sketch to support your answer.



**IF 2 planes intersect, then they intersect at a line.**

5.  $Q$  is between  $P$  and  $R$ .  $PQ = 2w - 3$ ,  $QR = 4 + w$ ,  $PR = 34$ . Find the value of  $w$ . Then find the lengths of  $PQ$  and  $QR$ .



$$2w - 3 + 4 + w = 34$$

$$w = 11$$

6. Find the midpoint of the segment with endpoints  $(-3, -8)$  and  $(-9, -5)$ .

$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left( \frac{-3 + -9}{2}, \frac{-8 + -5}{2} \right) = \left( -6, -\frac{13}{2} \right)$$

7. Find the distance between the points  $(2, 1)$  and  $(-2, -6)$ .

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{(-2 - 2)^2 + (-6 - 1)^2} = \sqrt{65}$$

8.  $m\angle JHI = (2x + 7)^\circ$  and  $m\angle GHI = (8x - 2)^\circ$  and  $m\angle JHG = 65^\circ$ . Find  $m\angle JHI$  and  $m\angle GHI$ .

$$2x + 7 + 8x - 2 = 65$$

$$\downarrow$$
  

$$x = 6$$



$$m\angle JHI = 19^\circ$$

$$m\angle GHI = 46^\circ$$

9. In the figure (not drawn to scale),  $\overline{MO}$  bisects  $\angle LMN$ ,  $m\angle LMO = (7x - 27)^\circ$ , and  $m\angle NMO = (x + 57)^\circ$ . Solve for  $x$  and find  $m\angle LMN$ .



$$7x - 27 = x + 57$$

$$\downarrow$$
  

$$x = 14$$

$$m\angle LMN = 142^\circ$$

10. Name a polygon with 6 sides.

**Hexagon**

11. If  $\angle R$  and  $\angle S$  are supplementary and  $m\angle R = 36^\circ$ , then  $m\angle S = ?$

$$144^\circ$$

# Geometry Semester 1 Study Guide

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**DOD Pam** United States. Office of Armed Forces Information and Education,

**The Independent Study Catalog** National University Continuing Education Association (U.S.), 1989

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