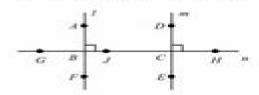
# Geometry Semester#1 Final Study Guide - Chapters 1-6 #1-3: Use this diagram to answer True or False:



DC is perpendicular to line n.

# TRUE

∠FBG and ∠FBJ are complementary.

#### FALSE

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

#### FALSE

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

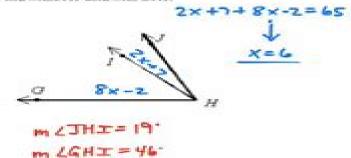


Q is between P and R.
 PQ = 2w - 3, QR = 4 + w, PR = 34. Find the value of w. Then find the lengths of PQ and QR.

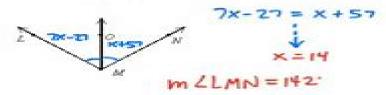
 Find the midpoint of the segment with endpoints (-3, -8) and (-9, -5).

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

m∠JHI = (2x + 7)° and m∠GHI = (8x - 2)° and m∠JHG = 65°.
 Find m∠JHI and m∠GHI.



In the figure (not drawn to scale), MO bisects
∠LMO, m∠LMO = (7x - 27)°, and
m∠NMO = (x + 57)°. Solve for x and find m∠LMO.



Name a polygon with 6 sides.

 If ∠R and ∠S are supplementary and m∠R = 36°, then m∠S = ?

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**CH Cherryholmes** 

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