

Geometry Unit 11 Study Guide

**Simplify.**

1.  $-74 + -37$                       2.  $82 - 49$                       3.  $(-45)(-61)$                       4.  $-126 \div (-7)$

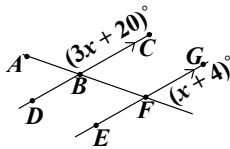
**Evaluate.**

5.  $R$  is the midpoint of  $\overline{PQ}$ .  $P$  has coordinates  $(3, 7)$  and  $R$  has coordinates  $(-5, 2)$ . What are the coordinates of  $Q$ ?

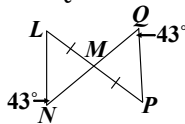
6. Given:  $B$  is the midpoint of segment  $AC$ .  
Prove:  $AB = BC$

|  |                       |
|--|-----------------------|
| 1. $B$ is the midpoint of segment $AC$ | 1. Given              |
| 2. $\overline{AB} \cong \overline{BC}$ | 2. [?]                |
| 3. $AB = BC$                           | 3. Def. of Congruence |

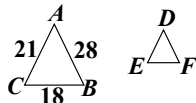
7.  $m\angle BFE = ?$



8. What postulate or theorem will prove that  $\triangle LMN \cong \triangle PMQ$ ?



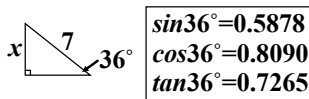
9.  $\triangle ABC \sim \triangle DEF$ . If the similarity ratio is  $\frac{7}{3}$ , what is  $DF$ ?



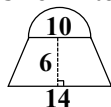
10. Do you have enough information to KNOW (prove) that the figure is a parallelogram?



11. Determine the length of segment  $MN$ . Round to the nearest hundredth.

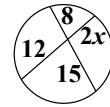


12. Determine the area of the composite figure. Leave your answer in terms of pi.

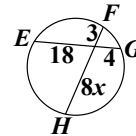


13. Determine the volume of a right rectangular pyramid with height 6, length 4, and width 3.

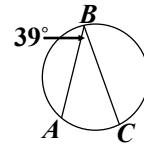
14.  $x = ?$



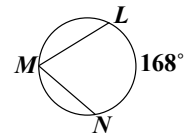
15.  $FH = ?$



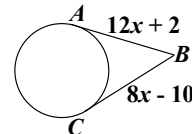
16.  $m\widehat{AC} = ?$



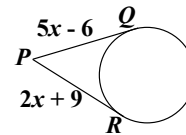
17.  $m\angle M = ?$



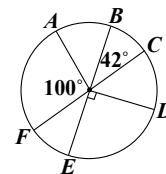
18.  $x = ?$



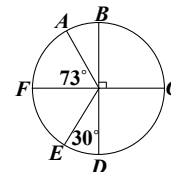
19.  $PQ = ?$



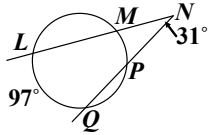
20. Determine the measure of arc  $AD$ .



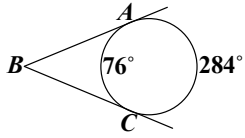
21. Determine the measure of arc  $AE$ .



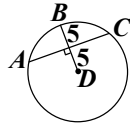
22.  $m\widehat{MP} = ?$



23.  $m\angle B = ?$



24.  $AC = ?$



25.  $MP = ?$

