

**Geometry**  
**Chapter 6 Review**

Name \_\_\_\_\_

**Multiple Choice:**

- \_\_\_\_\_ 1. If  $ON = 7x - 3$ ,  $LM = 6x + 6$ ,  $NM = x - 6$ , and  $OL = 5y - 5$ , find the values of  $x$  and  $y$  for which  $LMNO$  must be a parallelogram. The diagram is not to scale.



- |  |  |
|--|--|
| <p>a. <math>x = 8, y = \frac{13}{5}</math></p> <p>b. <math>x = 14, y = \frac{5}{13}</math></p> | <p>c. <math>x = 8, y = \frac{5}{13}</math></p> <p>d. <math>x = 14, y = \frac{13}{5}</math></p> |
|--|--|

- \_\_\_\_\_ 2. For the parallelogram, if  $m\angle 2 = 4x - 20$  and  $m\angle 4 = 3x - 9$ , find  $m\angle 3$ . The diagram is not to scale.



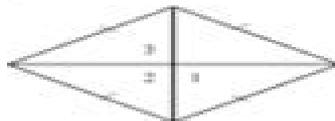
- |       |        |       |        |
|-------|--------|-------|--------|
| a. 11 | b. 156 | c. 24 | d. 166 |
|-------|--------|-------|--------|

- \_\_\_\_\_ 3. If  $m\angle B = m\angle D = 49$ , find  $m\angle C$  so that quadrilateral  $ABCD$  is a parallelogram. The diagram is not to scale.



- |       |        |       |        |
|-------|--------|-------|--------|
| a. 98 | b. 262 | c. 49 | d. 131 |
|-------|--------|-------|--------|

- \_\_\_\_\_ 4. In the rhombus,  $m\angle 1 = 3x$ ,  $m\angle 2 = x + y$ , and  $m\angle 3 = 10z$ . Find the value of each variable. The diagram is not to scale.



- |  |  |
|--|--|
| <p>a. <math>x = 60, y = 150, z = 9</math></p> <p>b. <math>x = 30, y = 60, z = 9</math></p> | <p>c. <math>x = 60, y = 60, z = 18</math></p> <p>d. <math>x = 30, y = 150, z = 18</math></p> |
|--|--|

# 2nd Semester Geometry Chapter 6 Review Packet Answers

**Jianjun Gao**



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height is modelled in the fe analysis figure 1 shows the fe mesh developed both