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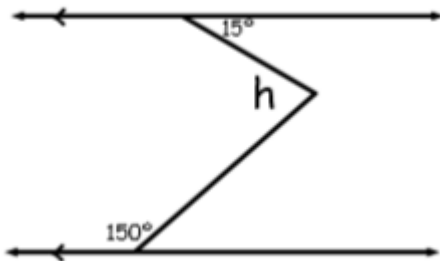
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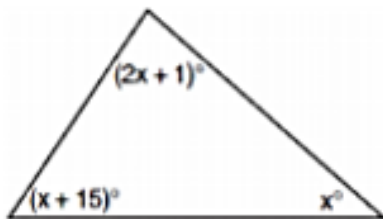
Mr. Valentino

### Unit 1 Review Homework

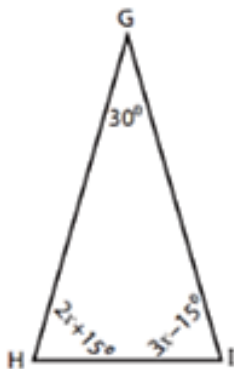
1. What is the value of angle  $h$ ?



3. What is the measure of the largest angle in the accompanying triangle?



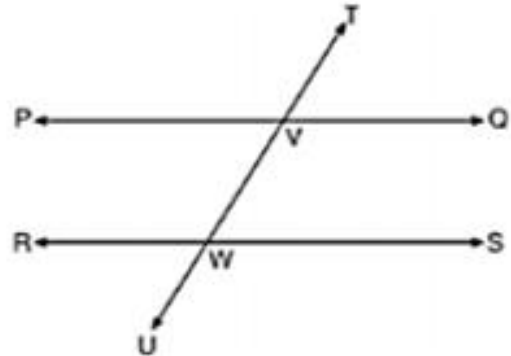
4. What kind of triangle is  $GHI$ ?



6. In scalene triangle  $ABC$ ,  $m\angle B = 45$  and  $m\angle C = 55$ . What is the order of the sides in length, from longest to shortest?

- 1)  $\overline{AB}, \overline{BC}, \overline{AC}$
- 2)  $\overline{BC}, \overline{AC}, \overline{AB}$
- 3)  $\overline{AC}, \overline{BC}, \overline{AB}$
- 4)  $\overline{BC}, \overline{AB}, \overline{AC}$

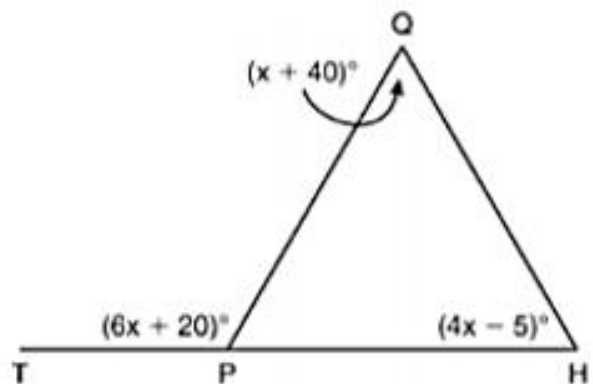
2. In the diagram below, transversal  $\overleftrightarrow{TU}$  intersects  $\overleftrightarrow{PQ}$  and  $\overleftrightarrow{RS}$  at  $V$  and  $W$ , respectively.



If  $m\angle TVQ = 5x - 22$  and  $m\angle WRS = 3x + 10$ , for which value of  $x$  is  $\overleftrightarrow{PQ} \parallel \overleftrightarrow{RS}$ ?

- 1) 6
- 2) 16
- 3) 24
- 4) 28

5. In the diagram below of  $\triangle HQP$ , side  $\overline{HP}$  is extended through  $P$  to  $T$ ,  $m\angle QPT = 6x + 20$ ,  $m\angle HQP = x + 40$ , and  $m\angle PHQ = 4x - 5$ . Find  $m\angle QPT$ .



(Not drawn to scale)

7. Which numbers could represent the lengths of the sides of a triangle?

- 1) 5, 9, 14
- 2) 7, 7, 15
- 3) 1, 2, 4
- 4) 3, 6, 8