Class

Date

## Standardized Test Prep Congruence in Right Triangles

## **Multiple Choice**

## For Exercises 1-4, choose the correct letter.



(B) $m \angle F = m \angle ABC$	(D) $\overline{AC} \cong \overline{DF}$
	$\bigcirc$ $IIO = DI$



2. For what values of *x* and *y* are the triangles shown congruent?

(F) $x = 1, y = 4$	(H) $x = 4, y = 1$
G <i>x</i> = 2, <i>y</i> = 4	(1) $x = 1, y = 3$



G

- 3. Two triangles have two pairs of corresponding sides that are congruent. What else must be true for the triangles to be congruent by the HL Theorem?
  - A The included angles must be right angles.
  - B They have one pair of congruent angles.
  - C Both triangles must be isosceles.
  - D There are right angles adjacent to just one pair of congruent sides.
- 4. Which of the following statements is true?
  - (F)  $\triangle BAC \cong \triangle GHI$  by SAS.
  - **G**  $\triangle DEF \cong \triangle GHI$  by SAS.
  - (H)  $\triangle BAC \cong \triangle DEF$  by HL.
  - $\bigcirc \triangle DEF \cong \triangle GHI \text{ by HL.}$

## **Extended Response**

5. Are the given triangles congruent by the HL Theorem? Explain.



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