Name _____ Class _____ Date _____

9-6 Standardized Test Prep

Compositions of Reflections

Multiple Choice

For Exercises 1–5, choose the correct letter.

1. For which transformations are the image and the preimage in opposite orientations?

(A) translations and rotations

(B) translations and reflections

(C) rotations and reflections

(D) reflections and glide reflections

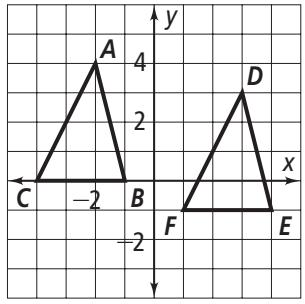
2. What type of transformation maps $\triangle ABC$ onto $\triangle DEF$?

(F) translation

(G) rotation

(H) reflection

(I) glide reflection



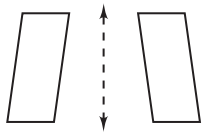
3. A triangle is reflected across line ℓ and then across line m. If the lines intersect, what kind of isometry is this composition of reflections?

(A) translation (B) rotation (C) reflection (D) glide reflection

4. What type of isometry is shown at the right?

(F) translation (H) reflection

(G) rotation (I) glide reflection



5. $X \rightarrow X'$ $(3, -2)$ by a glide reflection. The translation is $(x, y) \rightarrow (x, y + 3)$ and the line of reflection is $y = -1$. What are the coordinates of X?

(A) $(-5, -2)$ (B) $(-2, -2)$ (C) $(-2, -5)$ (D) $(3, -3)$

Short Response

6. What type of transformation is shown? Give the translation rule, reflection line, center and angle of rotation, or glide translation rule and reflection line.