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## 4-1 Standardized Test Prep <br> Congruent Figures

## Multiple Choice

For Exercises 1-6, choose the correct letter.

1. The pair of polygons at the right is congruent. What is $m \angle J$ ?
(A) 45
(C) 135
(B) 90
(D) 145

2. The triangles at the right are congruent. Which of the following statements must be true?
(F) $\angle A \cong \angle D$
(H) $\overline{A B} \cong \overline{D E}$
(G) $\angle B \cong \angle E$
(1) $\overline{B C} \cong \overline{F D}$

3. Given the diagram at the right, which of the following must be true?
(A) $\triangle X S F \cong \triangle X T G$
(C)
$\triangle F X S \cong \triangle X G T$
(B) $\triangle S X F \cong \triangle G X T$ (D) $\triangle F X S \cong \triangle G X T$

4. If $\triangle R S T \cong \triangle X Y Z$, which of the following need not be true?
(F) $\angle R \cong \angle X$
(G) $\angle T \cong \angle Z$
(H) $\overline{R T} \cong \overline{X Z}$
(1) $\overline{S R} \cong \overline{Y Z}$
5. If $\triangle A B C \cong \triangle D E F, m \angle A=50$, and $m \angle E=30$, what is $m \angle C$ ?
(A) 30
(B) 50
(C) 100
(D) 120
6. If $A B C D \cong Q R S T, m \angle A=x-10$, and $m \angle Q=2 x-30$, what is $m \angle A$ ?
(F) 10
(G) 20
(H) 30
(I) 40

## Short Response

7. Given: $\overline{A B}\|\overline{D C}, \overline{A D}\| \overline{B C}, \overline{A B} \cong \overline{C D}, \overline{A D} \cong \overline{C B}$

Prove: $\triangle A B D \cong \triangle C D B$


