

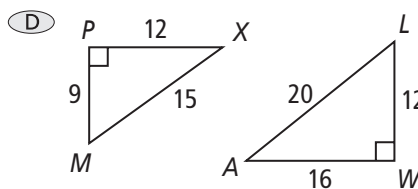
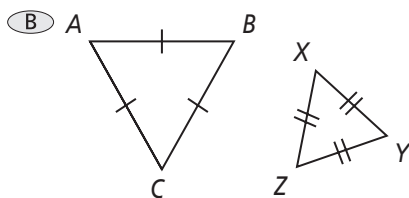
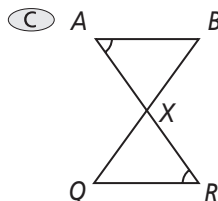
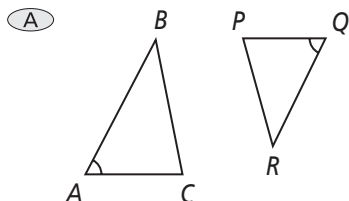
7-3 Standardized Test Prep

Proving Triangles Similar

Multiple Choice

For Exercises 1-3, choose the correct letter.

1. Which pair of triangles can be proven similar by the AA ~ Postulate?



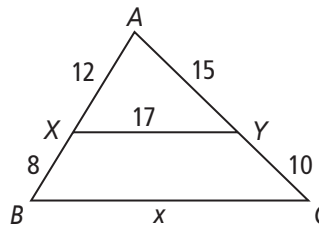
2. $\triangle AXY \sim \triangle ABC$. What is the value of x ?

(F) $10\frac{1}{5}$

(H) $11\frac{1}{3}$

(G) 19

(I) $28\frac{1}{3}$



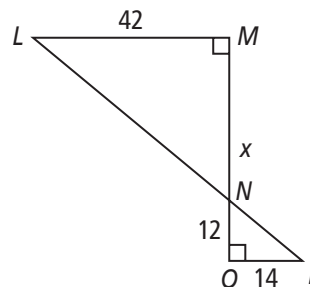
3. $\triangle LMN \sim \triangle PON$. What is the value of x ?

(A) 36

(C) 25

(B) 20

(D) $28\frac{1}{3}$



Short Response

4. Irene places a mirror on the ground 24 ft from the base of an oak tree. She walks backward until she can see the top of the tree in the middle of the mirror. At that point, Irene's eyes are 5.5 ft above the ground, and her feet are 4 ft from the mirror. How tall is the oak tree? Explain.

