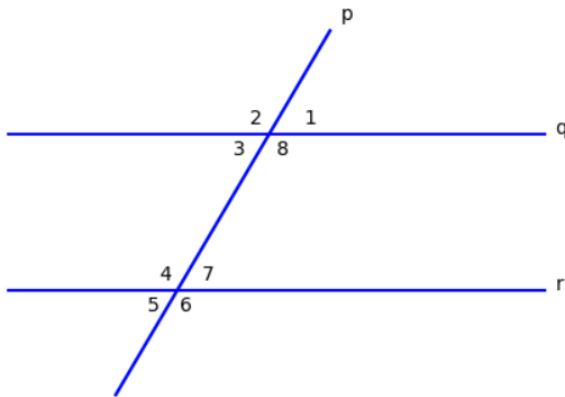
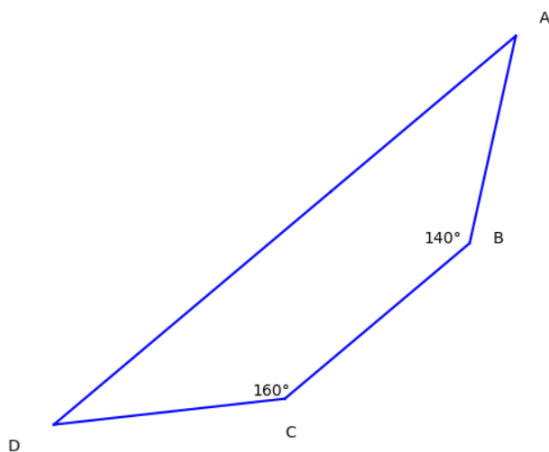


## Parallel Lines and Angles

1. In the figure below, parallel lines  $q$  and  $r$  are intersected by transversal  $p$ , forming the numbered angles. Which of the following congruence statements is NOT necessarily true?



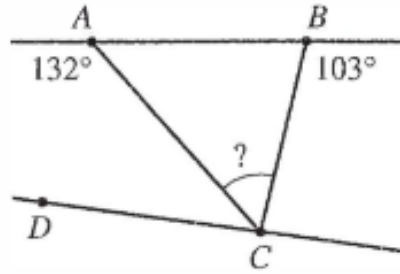
- A)  $\angle 1 \cong \angle 7$   
B)  $\angle 2 \cong \angle 4$   
C)  $\angle 3 \cong \angle 5$   
D)  $\angle 4 \cong \angle 5$
2. In the trapezoid below,  $\overline{AD}$  is parallel to  $\overline{BC}$ . What is the measure of  $\angle A$ ?



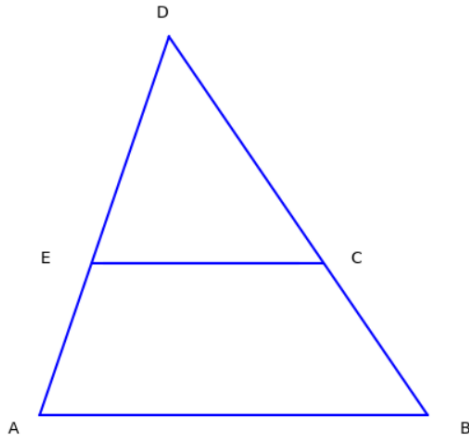
- A)  $20^\circ$   
B)  $40^\circ$   
C)  $130^\circ$   
D)  $140^\circ$

3. The figure below shows lines  $\overline{AB}$  and  $\overline{DC}$ , line segments  $\overline{AC}$  and  $\overline{BC}$ , and 2 angle measures. What is the measure of  $\angle ACB$  ?

A)  $42^\circ$   
 B)  $48^\circ$   
 C)  $55^\circ$   
 D)  $77^\circ$



4. In the figure below, segments  $AB$  and  $CE$  are parallel. If angle  $DCE$  measures  $50^\circ$  and angle  $ADB$  measures  $60^\circ$ , what is the measure of angle  $DAB$ ?



A)  $40^\circ$   
 B)  $50^\circ$   
 C)  $60^\circ$   
 D)  $70^\circ$

5. In the figure below, line  $l$  is parallel to line  $m$ . What is the value of  $y$  ?

A) 70  
 B) 100  
 C) 110  
 D) 120

