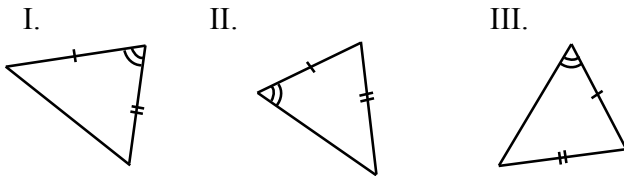


## TB(1B) Ch. 9 Congruence and Similarity

### Multiple Choice Questions

**1. [13-14 Final Exam]**

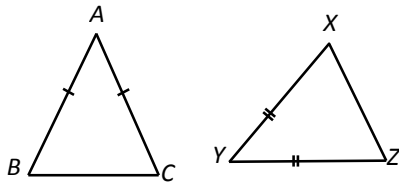
Which of the following triangles must be congruent?



- A. I and II only
- B. I and III only
- C. II and III only
- D. None of the above

**2. [13-14 Final Exam]**

What additional information is needed to prove  $\triangle ABC \sim \triangle YZX$ ?

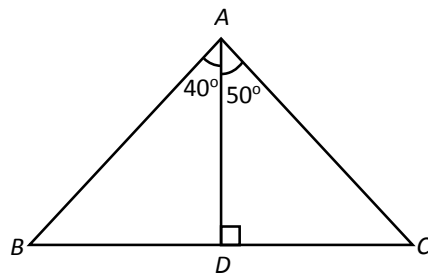


- A.  $\angle B = \angle Y$
- B.  $AB = XZ$
- C.  $BC = XZ$
- D.  $\angle A = \angle Y$

**3. [14-15 Final Exam #10]**

In the figure,  $AD \perp BC$ ,  $\angle BAD = 40^\circ$  and  $\angle DAC = 50^\circ$ . Which of the following is correct?

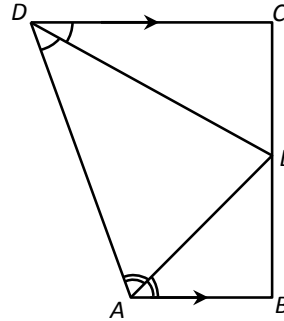
- A.  $\triangle ABD \cong \triangle ACD$  (ASA)
- B.  $\triangle ABD \cong \triangle ACD$  (RHS)
- C.  $\triangle ABD \cong \triangle CAD$  (AAS)
- D.  $\triangle ABD \sim \triangle CAD$  (AAA)



4. [14-15 Final Exam #20]

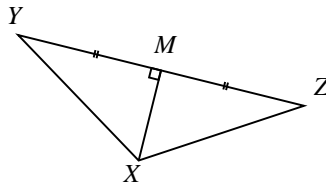
In the figure,  $ABCD$  is a trapezium with  $AB \parallel DC$ .  $AE$  bisects  $\angle DAB$  and  $DE$  bisects  $\angle ADC$ . Which of the following must be correct?

- I.  $BE = EC$
  - II.  $\angle AED = 90^\circ$
  - III.  $\triangle ABE \sim \triangle ECD$
- A. I only
  - B. II only
  - C. I and III only
  - D. II and III only



5. [15-16 Final Exam, #10]

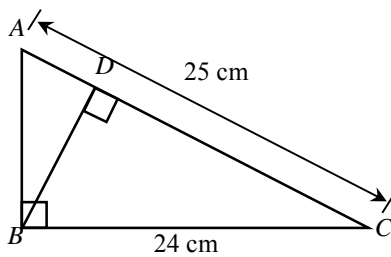
In the figure,  $M$  is the mid-point of  $YZ$  and  $XM \perp YZ$ . The most direct reason for  $\triangle XMY \cong \triangle XMZ$  is



- A. SAS.
- B. RHS.
- C. ASA.
- D. SSS.

6. [16-17 Final Exam, #19]

In the figure,  $AC = 25$  cm and  $BC = 24$  cm. By considering  $\triangle ABC$  and  $\triangle BDC$ , find the length of  $AD$ .

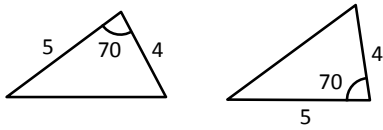


- A. 0.96 cm
- B. 1.04 cm
- C. 1.96 cm
- D. It cannot be determined.

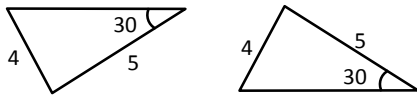
7. [17-18 S Test 2, #5]

Which of the following pairs of triangles **MUST** be congruent?

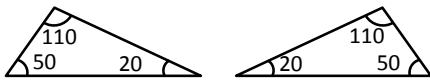
A.



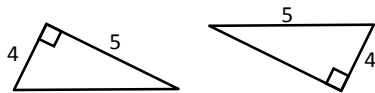
B.



C.

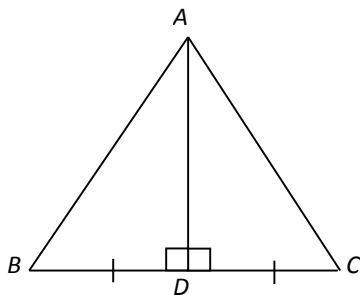


D.



8. [17-18 S Test 2, #15]

In the figure, the condition that  $\triangle ABD \cong \triangle ACD$  is



A. SAS.

B. ASA.

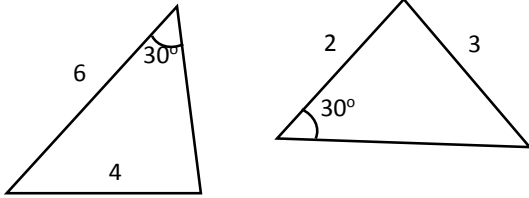
C. SSA.

D. RHS.

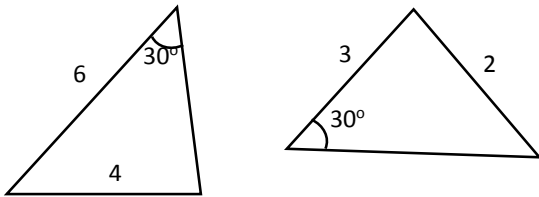
9. [17-18 S Test 2, #19]

Which of the following pairs of triangles must be similar?

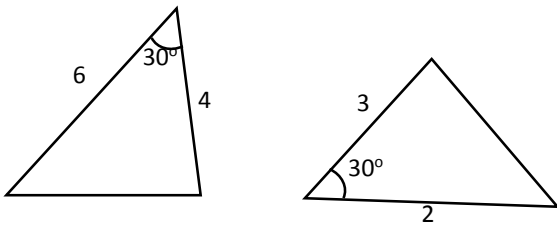
A.



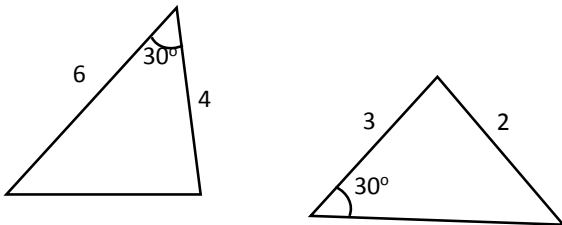
B.



C.



D.



~ End ~