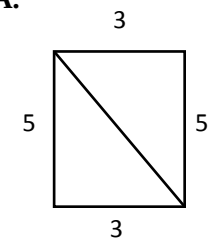
TB(1B) Ch. 9 Congruence and Similarity
Multiple Choice Questions

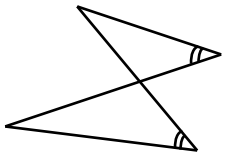
1. [11-12 Final Exam, Q17]

Which of the following pairs of triangles may not be similar?

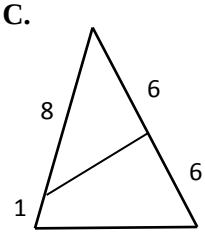
A.



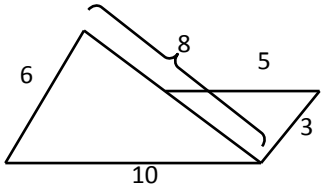
B.



C.



D.

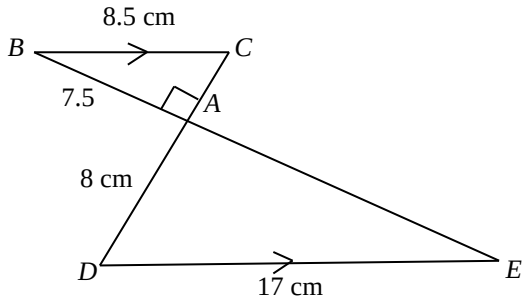


2. [11-12 Final Exam, Q18]

In the figure, *CD* intersects *BE* at *A*. $\angle BAC = 90^\circ$, *BC* = 8.5 cm, *AB* = 7.5 cm, *AD* = 8 cm, *DE* = 17 cm and *BC* // *DE*. Find the area of ΔADE.

A. 30 cm^2 **B.** 60 cm^2

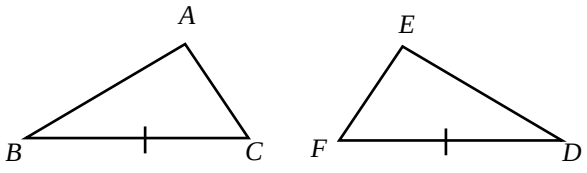
C. 68 cm^2 **D.** 120 cm^2



3. [11-12 Final Exam, Q19]

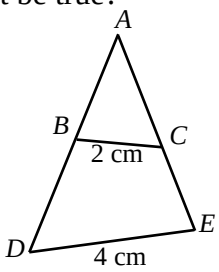
In ΔABC and ΔEDF , *BC* = *DF*. Which of the following conditions cannot be used to prove that $\Delta ABC \cong \Delta EDF$?

A. *AB* = *ED* and $\angle C = \angle D$
B. *AB* = *DE* and *AC* = *EF*
C. $\angle B = \angle D$ and $\angle C = \angle F$
D. *AC* = *EF* and $\angle A = \angle E = 90^\circ$



4. [12-13 Final Exam, Q9]

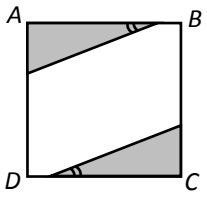
It is given that $\triangle ABC \sim \triangle ADE$. Which of the following must be true?

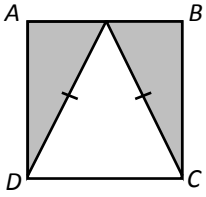


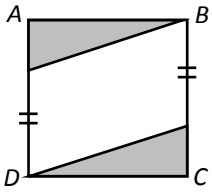
A. $\angle D = \angle E$
B. $AB = AC$
C. $BC \parallel DE$
D. $AB = 1$ cm and $BD = 2$ cm

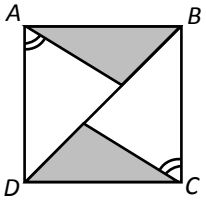
5. [12-13 Final Exam, Q17]

It is given that $ABCD$ is a square. Which of the following pairs of shaded triangles may not be congruent?

A.


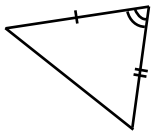
B.


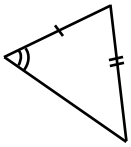
C.


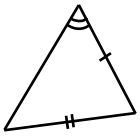
D.


6. [13-14 Final Exam]

Which of the following triangles must be congruent?

I.


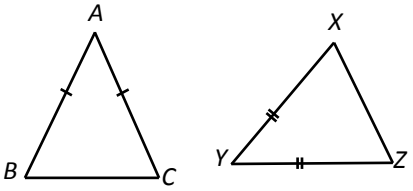
II.


III.


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

7. [13-14 Final Exam]

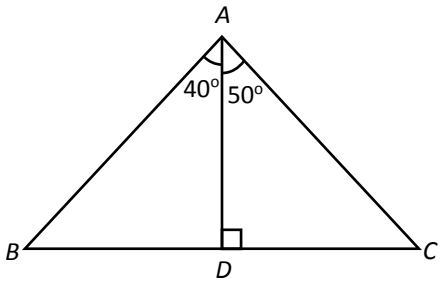
What additional information is needed to prove $\Delta ABC \sim \Delta YZX$?



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

8. [14-15 Final Exam]

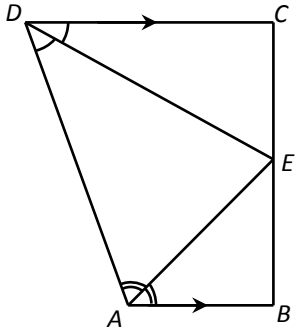
In the figure, $AD \perp BC$, $\angle BAD = 40^o$ and $\angle DAC = 50^o$. Which of the following is correct?



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

9. [14-15 Final Exam]

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

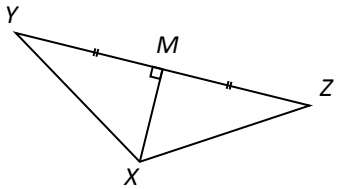


I. $BE = EC$
II. $\angle AED = 90^o$
III. $\Delta ABE \sim \Delta ECD$

A. I only
B. II only
C. I and III only
D. II and III only

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

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



A. SAS. **B.** RHS.

C. ASA. **D.** SSS.

~ End ~