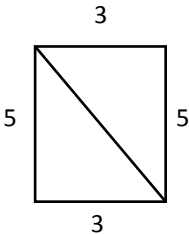


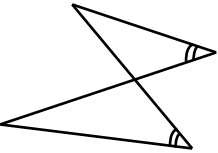
TB(1B) Ch. 9 Congruence and Similarity

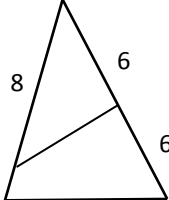
Multiple Choice Questions

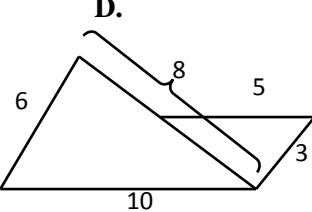
1. [11-12 Final Exam, Q17]

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

A. 

B. 

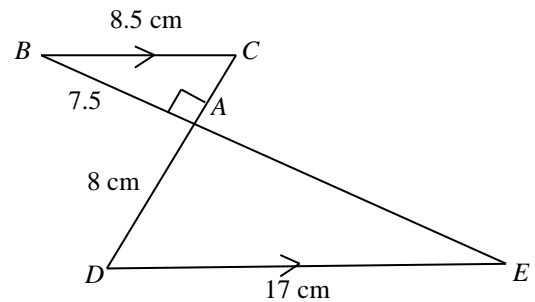
C. 

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 $BC \parallel DE$. Find the area of $\triangle ADE$.

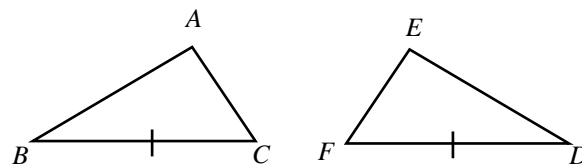
- A. 30 cm^2
- B. 60 cm^2
- C. 68 cm^2
- D. 120 cm^2



3. [11-12 Final Exam, Q19]

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

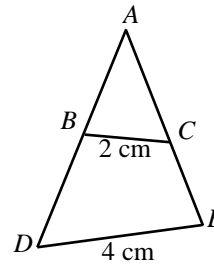
- A. $AB = ED$ and $\angle C = \angle D$
- B. $AB = DE$ and $AC = EF$
- C. $\angle B = \angle D$ and $\angle C = \angle F$
- D. $AC = EF$ and $\angle A = \angle E = 90^\circ$



4. [12-13 Final Exam, Q9]

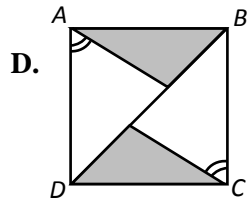
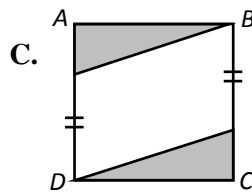
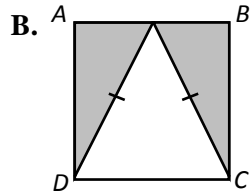
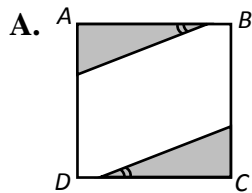
It is given that $\triangle ABC \sim \triangle ADE$. Which of the following must be true?

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



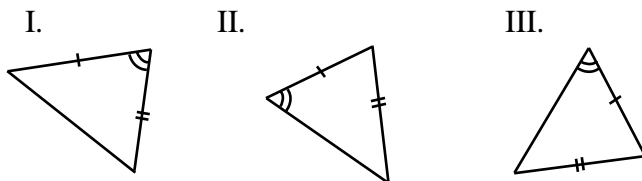
5. [12-13 Final Exam, Q17]

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



6. [13-14 Final Exam]

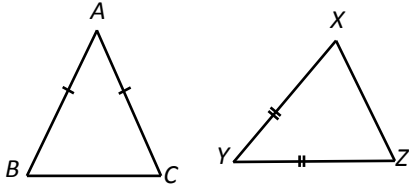
Which of the following triangles must be congruent?



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

7. [13-14 Final Exam]

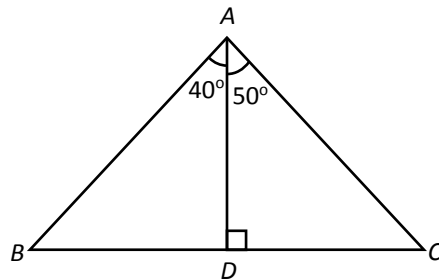
What additional information is needed to prove $\triangle ABC \sim \triangle YZX$?



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

8. [14-15 Final Exam]

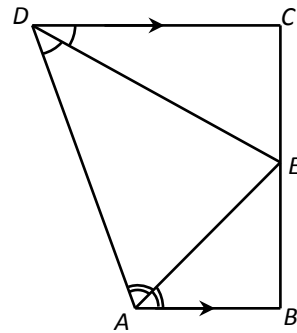
In the figure, $AD \perp BC$, $\angle BAD = 40^\circ$ and $\angle DAC = 50^\circ$. Which of the following is correct?



- 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)

9. [14-15 Final Exam]

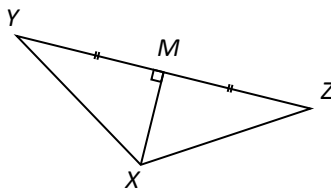
In the figure, $ABCD$ is a trapezium with $AB \parallel DC$. AE bisects $\angle DAB$ and DE bisects $\angle ADC$. Which of the following must be correct?



- 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

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 $\triangle XMY \cong \triangle XMZ$ is



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

~ End ~