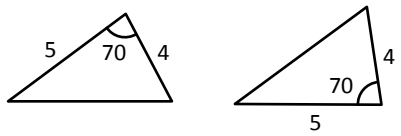
TB(1B) Ch.11-Congruent Triangles
Multiple Choice Questions

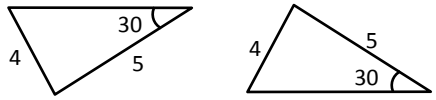
1. [17-18 S Test 2, #5]

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

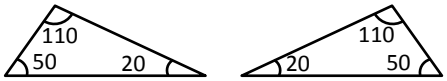
A.



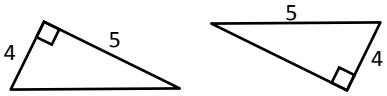
B.



C.



D.



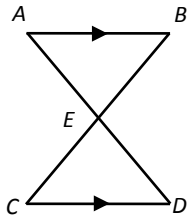
2. [17-18 S Test 2, #9]

In the figure, AB // CD. AED and BEC are straight lines. Which of the following must be true?

I. $\angle AEC = \angle ABE + \angle CDE$

II. $\angle ABE = \angle DCE$

III. $\Delta AEB \cong \Delta DEC$



A. I and II only

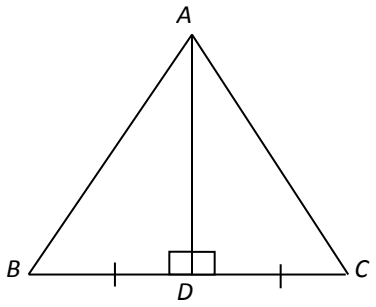
B. I and III only

C. II and III only

D. I, II and III

3. [17-18 S Test 2, #15]

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

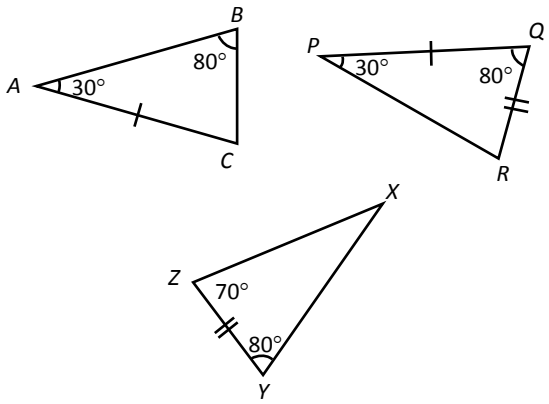


A. SAS. **B.** ASA.

C. SSA. **D.** RHS.

4. [18-19 S Test 2, #5]

Which triangles are congruent?



A. $\Delta ABC \cong \Delta PQR$

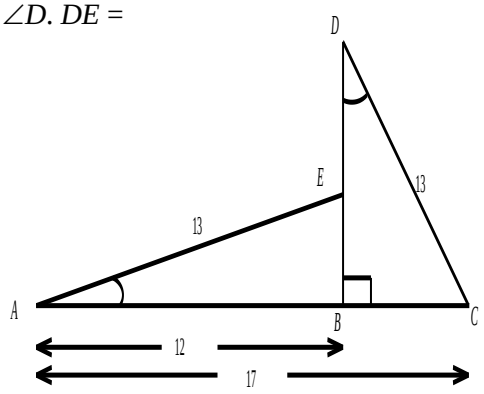
B. $\Delta ABC \cong \Delta XYZ$

C. $\Delta PQR \cong \Delta XYZ$

D. $\Delta ABC \cong \Delta PQR \cong \Delta XYZ$

5. [18-19 Final Exam, #17]

In the figure, *ABC* and *BED* are straight lines and $\angle A = \angle D$. *DE* =



A. 5.

B. 6.

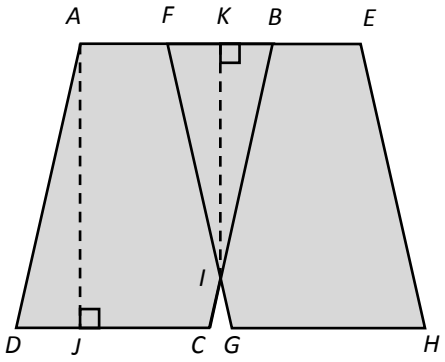
C. 7.

D. 8.

6. [18-19 Final Exam, #20]

In the figure, parallelogram *ABCD* is congruent to parallelogram *EFGH*. It is given that *AFKBE* and *DJC* are straight lines, *BC* intersects *FG* at *I*, $AJ \perp DC$ and $IK \perp AE$. If *AK* = *KE* = 6 cm, *DC* = 8 cm, *IK* = 8 cm and *AJ* = 12 cm. Which of the following statements are true?

I. *KB* = 2 cm
II. *DJ* = 2.8 cm
III. The area of *AEHGICD* is 176 cm^2.



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

7. [20-21 Final Exam #12]

It is given that $\Delta ABC \cong \Delta QPR$. If $\angle B = 85°$ and $\angle C = 30°$, then $\angle Q$ =

A. 65°.

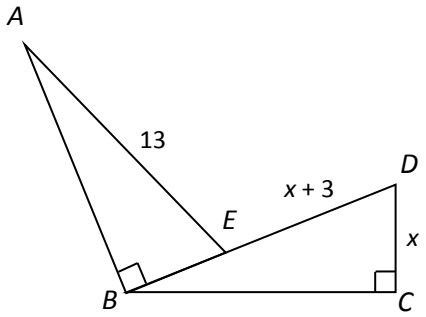
B. 75°.

C. 85°.

D. 95°.

8. [20-21 Final Exam #17]

In the figure, *BED* is a straight line. If $\Delta ABE \cong \Delta BCD$, $AE = 13$, $DE = x + 3$ and $CD = x$, then $x =$



A. 5.

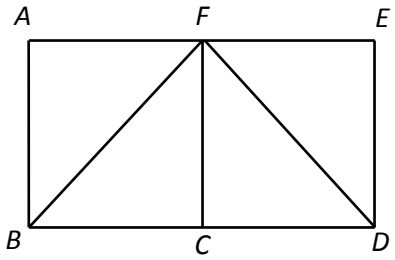
B. 6.

C. 7.

D. 8.

9. [20-21 Final Exam #24]

In the figure, *ABDE* is a parallelogram. *F* and *C* are mid-points of *AE* and *BD* respectively. Which of the following(s) must be true?



I. $\Delta ABF \cong \Delta CFB$

II. $\angle BCF = \angle DCF$

III. $BF = DF$

A. I only

B. II only

C. I and II only

D. I, II and III

~ End ~