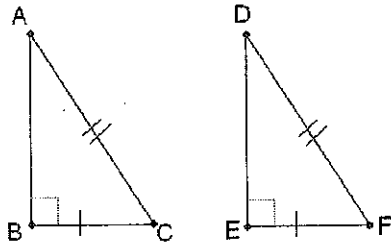


EOC Review

Name: _____

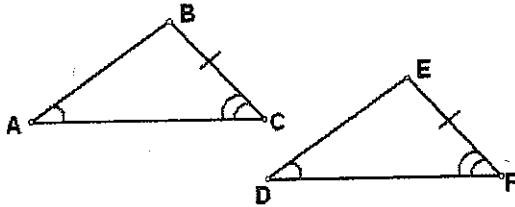
1)



Which reason explains the congruency of these two triangles?

- A) AAA
- B) HL
- C) SAS
- D) SSS

2)



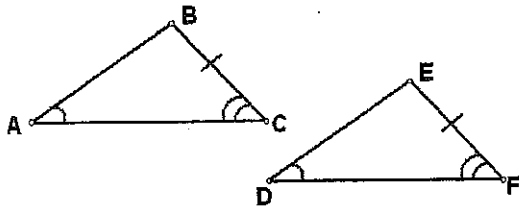
Which of the statements about the two triangles is correct?

- A) The triangles are congruent by AAA.
- B) These triangles are congruent by AAS.
- C) These triangles are congruent by SSS.
- D) These triangles are congruent by SSA.

3) For which pair of triangles would you use AAS to prove the congruence of the 2 triangles?

- A)
- B)
- C)
- D)

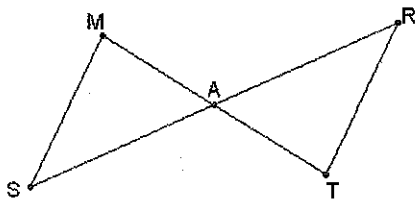
4)



Using only the markings in the diagram, what theorem can be used to prove that the triangles are congruent?

- A) AAA
- B) AAS
- C) SAS
- D) SSS

5)

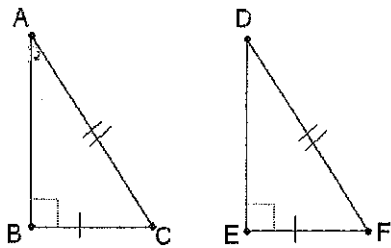


$\triangle SAM \cong \triangle RAT$

Which statement is not necessarily true?

- A) $MA = TA$
- B) $MS = TR$
- C) $\angle M \cong \angle R$
- D) $\angle M \cong \angle T$

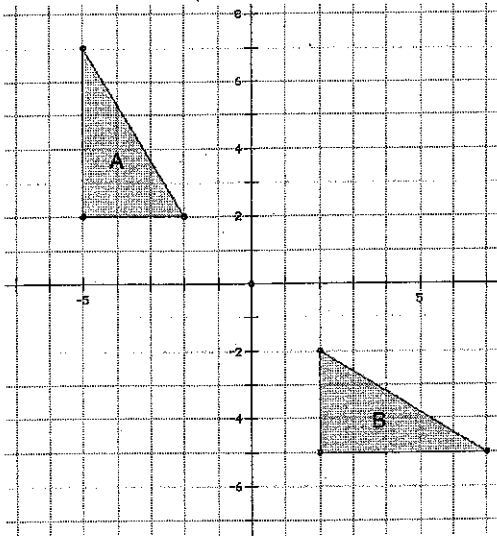
6)



What theorem can be used to prove that the two triangles are congruent?

- A) HL
- B) LA
- C) LL
- D) SSS

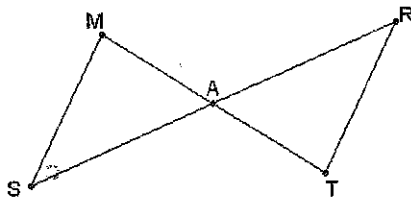
7)



Describe the transformations that will map triangle A to triangle B and illustrate the similarity between the two triangles.

- | | |
|--|---|
| <p>A) reflect triangle A across the y-axis and then translate triangle A 5 units down</p> <p>B) reflect triangle A across the x-axis and then reflect triangle A across the y-axis</p> | <p>C) translate triangle A 4 units down and then rotate triangle A 180° counterclockwise about the origin</p> <p>D) reflect triangle A across the x-axis and then rotate triangle A 90° counterclockwise about the origin</p> |
|--|---|

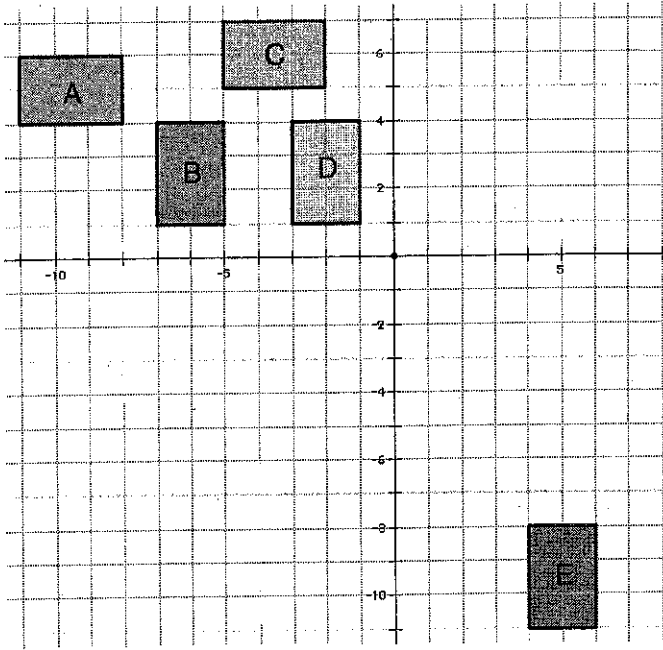
8)



If triangle $MAS \cong$ triangle TAR . Which of the statements could be false?

- | | |
|---|---|
| <p>A) segment $\overline{MA} \cong$ segment \overline{TA}</p> <p>B) segment $\overline{MA} \cong$ segment \overline{SA}</p> | <p>C) $\angle ASM \cong \angle ART$</p> <p>D) $\angle MAS \cong \angle TAR$</p> |
|---|---|

9)

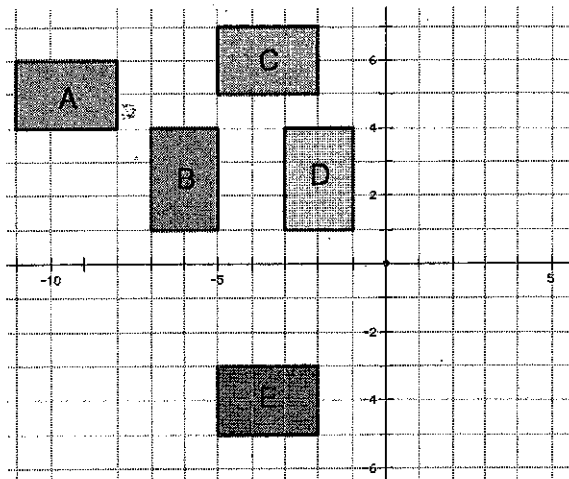


reflect across the x-axis and then rotate 90° counterclockwise about the origin

Determine which rectangle was transformed to result in rectangle E.

- A) rectangle A
- B) rectangle B
- C) rectangle C
- D) rectangle D

10)

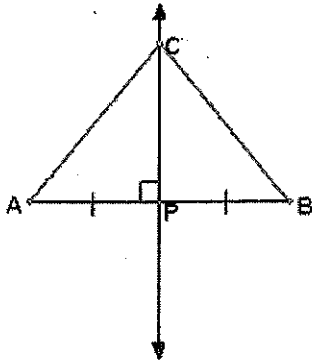


reflect across the x-axis and then translate up 2 units

Determine which rectangle was transformed to result in rectangle E.

- A) rectangle A
- B) rectangle B
- C) rectangle C
- D) rectangle D

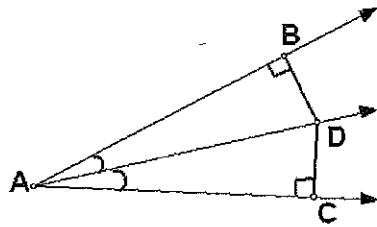
11)



Which of the choices shown could be used to prove that $\triangle ACP \cong \triangle BCP$?

- A) AAA
- B) CPCTC
- C) SAS
- D) SSA

12)



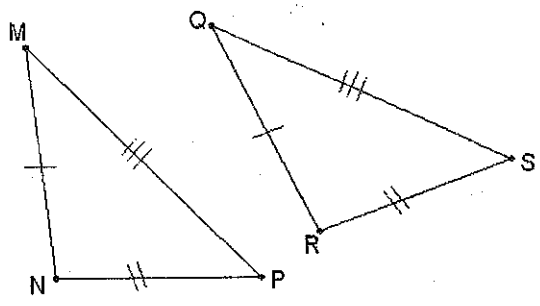
By which reason can it be proven that triangles DAB and DAC are congruent?

- A) AAA
- B) AAS
- C) SSA
- D) SSS

13) For which pair of triangles would you use SAS to prove the congruence of the 2 triangles?

- A)
- B)
- C)
- D)

14)



What theorem can be used to prove that the two triangles are congruent?

- A) AAS
- B) ASA
- C) SAS
- D) SSS

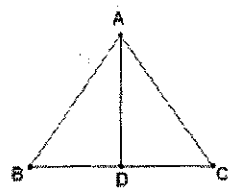
15) What does it mean if two figures are congruent?

- A) Congruent figures have the same size and the same shape.
- B) Congruent figures have different sizes and different shapes.
- C) Congruent figures have the same size but are different shapes.
- D) Congruent figures have the same shape but are different sizes.

16) $\triangle ABC$ is isosceles. Angles B and C are congruent. The $m\angle A = 40^\circ$, $m\angle B = (3x + 1)^\circ$. Find x.

- A) 13
- B) 23
- C) 46.3
- D) 70

17)



Statements	Reasons
1. $\overline{AB} \cong \overline{AC}$	1. Given
2. $\triangle ABC$ is isosceles	2. Definition of isosceles \triangle
3. $\overline{BD} \cong \overline{CD}$	3. Given
4. $\angle B \cong \angle C$	4. Base angles an isosceles triangle are \cong
5. $\triangle ABD \cong \triangle ACD$	5. ???

Choose the missing reason in the proof.

- A) AAS
- B) ASA
- C) SSA
- D) SAS

