

G.5 Triangle Angles and Sides (continued)

19) On a map, a triangle is formed between three cities. Angleton is 45 miles from Segment City, Segment City is 32 miles from Circleburg, Circleburg is 43 miles from Angleton. At which city is the angle formed the smallest?

- A) Angleton
- B) Segment City
- C) Circleburg
- D) They are all the same angle

20) Which of the following lists the sides in order from greatest to least? Note: Figure is not drawn to scale.



- A) $\overline{BC}, \overline{AC}, \overline{AB}$
- B) $\overline{BC}, \overline{AB}, \overline{AC}$
- C) $\overline{AB}, \overline{BC}, \overline{AC}$
- D) $\overline{AC}, \overline{AB}, \overline{BC}$

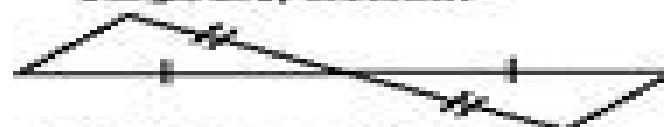
G.6 Congruent Triangles

21) What values of x and y make $\triangle CDE \cong \triangle MNF$?



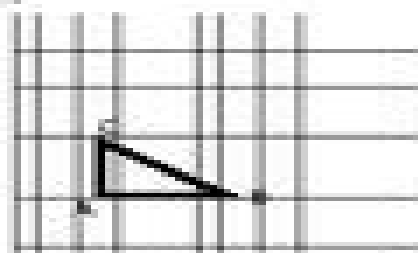
- A) $x = 15, y = 5$
- B) $x = 34, y = 5$
- C) $x = 15, y = 8$
- D) $x = 34, y = 8$

22) The following triangles can be proven congruent based on which congruency theorem?



- A) Side-Side-Side (SSS) Theorem
- B) Side-Angle-Side (SAS) Theorem
- C) Hypotenuse-Leg (HL) Theorem
- D) Angle-Angle-Side (AAS) Theorem

23) Which set of ordered pairs will create a triangle congruent to $\triangle ABC$?



- A) $\{(0,0), (0,5), (6,0)\}$
- B) $\{(2,2), (2,-5), (6,2)\}$
- C) $\{(-6,0), (-6,5), (-3,5)\}$
- D) $\{(-7,-4), (-7,4), (7,-4)\}$

24) Complete the proof.



- Options:
- Transitive Property
 - Reflexive Property
 - Side-Angle-Side (SAS)
 - Side-Side-Side (SSS)
 - Definition of Congruent Triangles

Statements	Reasons
$\overline{KN} \cong \overline{LN}, \overline{KL} \cong \overline{LM}$	Given
$\angle K \cong \angle M$	
$\triangle KMN \cong \triangle MNL$	

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