NEBRASKA GEOMETRY · UNIT 1 · 5 QUESTIONS

Congruence and Similarity — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Two triangles have two pairs of corresponding angles equal, and a pair of nonincluded sides equal. The congruence criterion is**

- A SSS
- B AAS
- C ASA
- D HL

Understand It with Pulse | Flag a mistake

2 **One triangle has angles 40° and 70°. Another triangle has angles 40° and 70°. The triangles are similar by**

- A SSS
- B SAS
- C AA
- D HL

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3 **Under a dilation centered at the origin with scale factor 0.5, the point (8, 6) maps to**

- A (16, 12)
- B (4, 3)
- C (8, 3)
- D (4, 6)

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4 **Two straight parallel railway tracks run away into the distance through green countryside. In a triangle, a midsegment is parallel to a base of length 22. The length of the midsegment is**



A 22

B 44

C 11

D 5.5

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5 **Two similar triangles have a linear scale factor of 3:4. The smaller triangle has perimeter 27. The larger perimeter is**

A 20.25

B 48

C 36

D 81

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ANSWER KEY

1. B
2. C
3. B
4. C
5. C

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