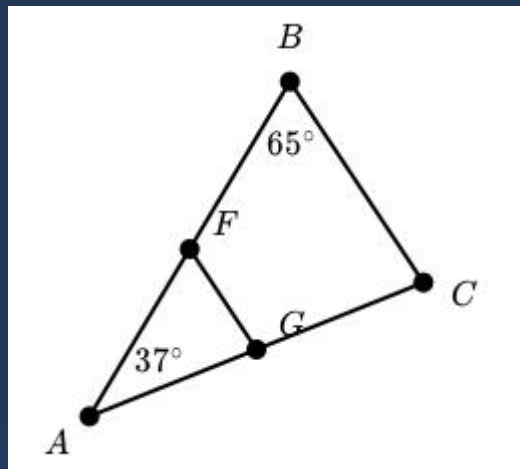


Congruence and similarity



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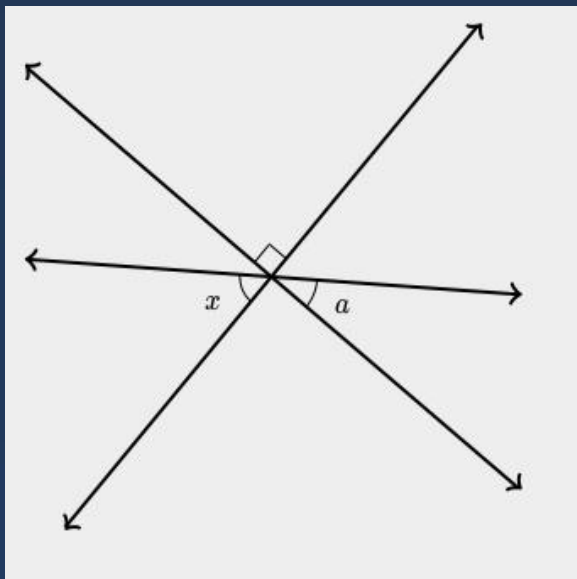
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1. In the diagram above, triangle AFG is similar to triangle ABC . What is the measure of $\angle AGF$, in degrees?

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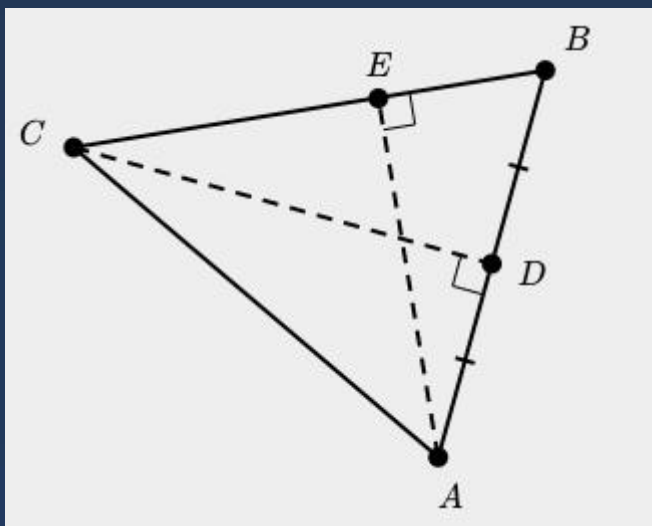
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2. In the diagram at left, suppose $a = \frac{2}{3}x$. What is the measure of x ?

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3. In the diagram at left, AD is congruent to BD . Which of the following statements is true?

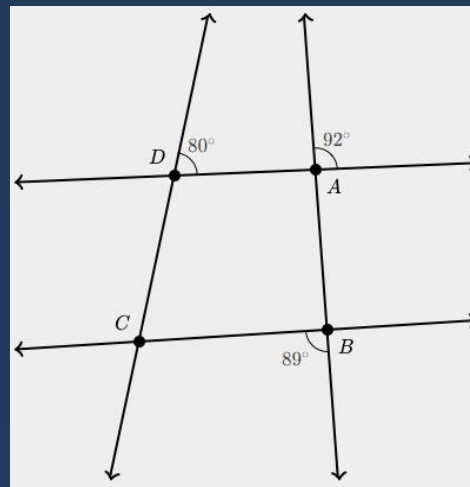
- A. AE bisects $\angle CAB$
- B. $\angle ACB$ is congruent to $\angle ABC$
- C. triangle ABC is isosceles
- D. AE is a median of $\triangle ABC$

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4. The diagram at left shows four lines: AB, CD, AD, and BC. Which of the following statements is true?

- A. $\angle ABC$ measures 88°
- B. $\angle BCD$ measures 80°
- C. AD intersects BC
- D. AD is parallel to BC

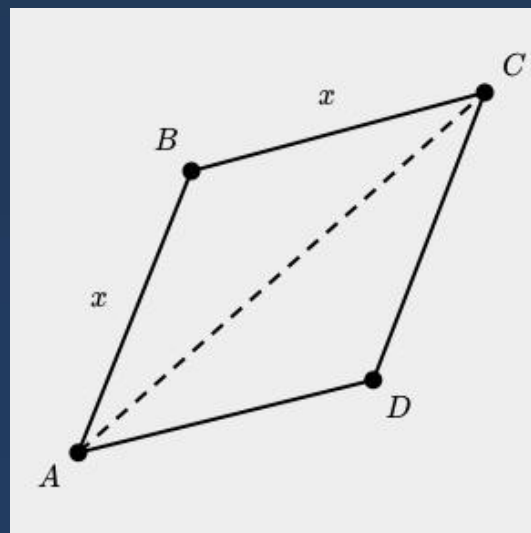


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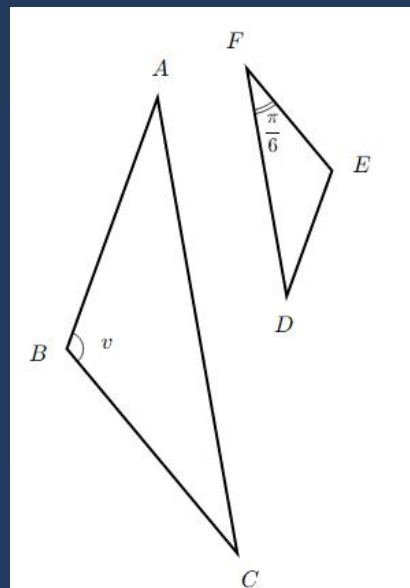
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5. In the diagram at left, AB is congruent to BC . Which of the following statements is true?

- A. $\angle DAC$ is congruent to $\angle DCA$
- B. $\angle BAC$ is congruent to $\angle BCA$
- C. $\angle ABC$ is congruent to $\angle ADC$
- D. $\angle BAD$ is congruent to $\angle BCD$



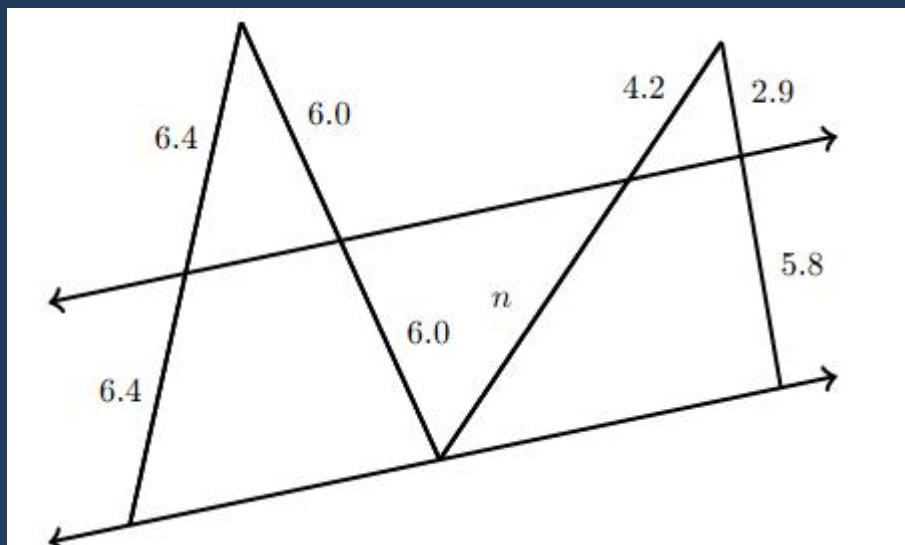
6. Isosceles triangles ABC and DEF shown above are similar triangles. The length AB equals the length BC, and the length DE equals the length EF. What is the value of v in radians, to the nearest hundredth?



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7. Given the lengths of the segments in the figure above, what is the length, to the nearest tenth, of n ?

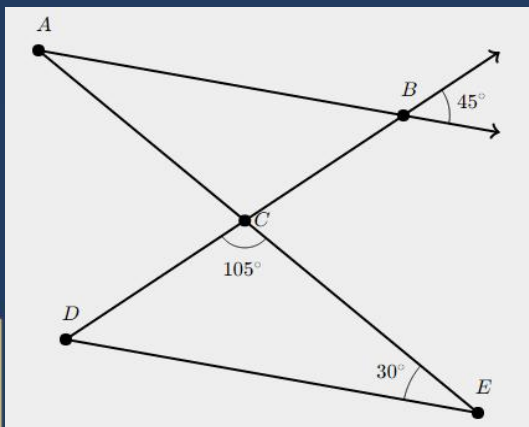


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8. Given the figure at left, which of the following statements must be true?

- A. AB is parallel to DE.
- B. C is the midpoint of BD.
- C. Triangle CBA is congruent to triangle CDE.
- D. $\angle ABC$ and $\angle DCE$ are vertical angles.

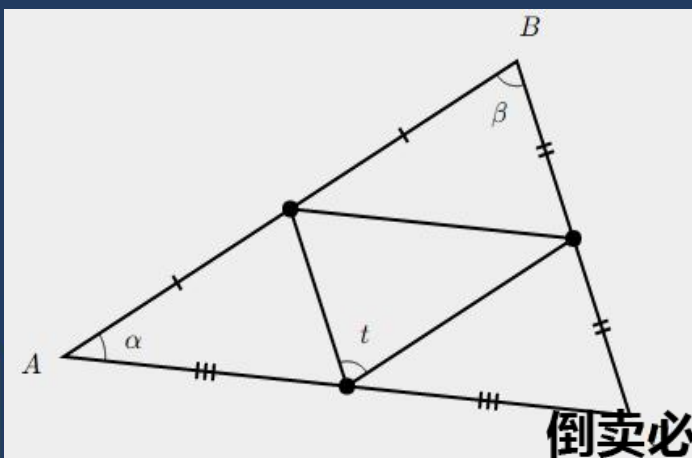


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9. In triangle ABC shown at left, tick marks of equal number represent sides of equal length. Therefore, the point along line segment AB is the midpoint of AB. What is the value of β in terms of α and t ?

- A. α B. t C. $\frac{\pi}{2} - \alpha$ D. $\frac{\pi}{2} - \alpha$



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Thanks

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