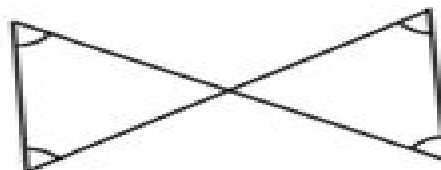


GEOMETRY FINAL EXAM

Directions: Circle the best answer for each question.

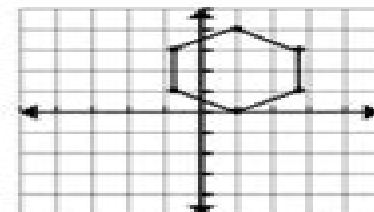
1. Can you prove the triangles are congruent? If so, how?

- a. Yes, ASA
- b. Yes, AAS
- c. Yes, SAS
- d. No



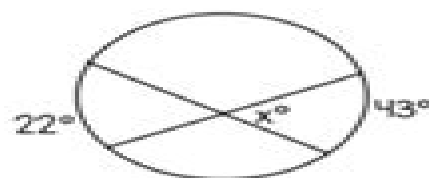
2. Which transformation would map the regular hexagon to itself?

- a. rotate 60° about $(0, 0)$
- b. translate left 2, up 4
- c. reflect over $x=1$
- d. dilate by a factor of 2 centered at $(0, 0)$



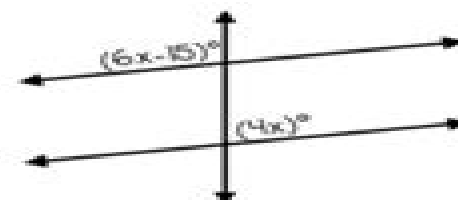
3. Find the measure of the missing angle. It is NOT a central angle.

- a. 32.5°
- b. 10.5°
- c. 43°
- d. 65°



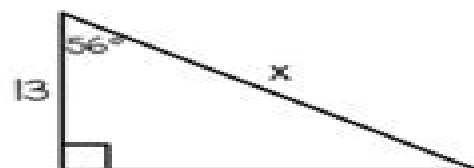
4. Solve for x .

- a. 16.5
- b. 19.5
- c. 7.5
- d. 4.5



5. Solve for the missing side.

- a. $x = 15.7$
- b. $x = 23.2$
- c. $x = 19.3$
- d. $x = 7.3$



6. Ben is 5.8 ft. tall and his shadow is 10 ft. long. At the same time of day, a 14 ft. tree casts a shadow. How long will the shadow be?

- a. 24.1 ft.
- b. 8.1 ft.
- c. 4.1 ft.
- d. 17.3 ft.

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David Baud



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