

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.

Geometry 2nd Semester Final Exam Study Guide

Jay Graening



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