

# The Grant LAW OF SINES & COSINES CHALLENGE! V4

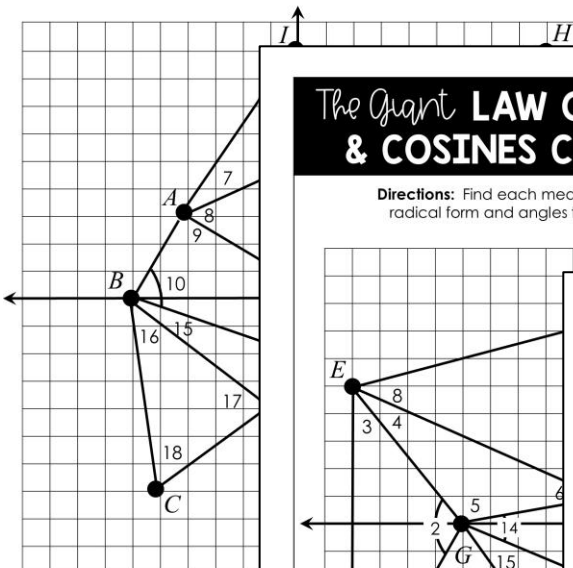
Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Directions: Find each measure. Give side lengths in simplest radical form and angles to the nearest tenth of a degree.

HG = \_\_\_\_\_ BC = \_\_\_\_\_

HF = \_\_\_\_\_ CD = \_\_\_\_\_



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# The Grant LAW OF SINES & COSINES CHALLENGE! V3

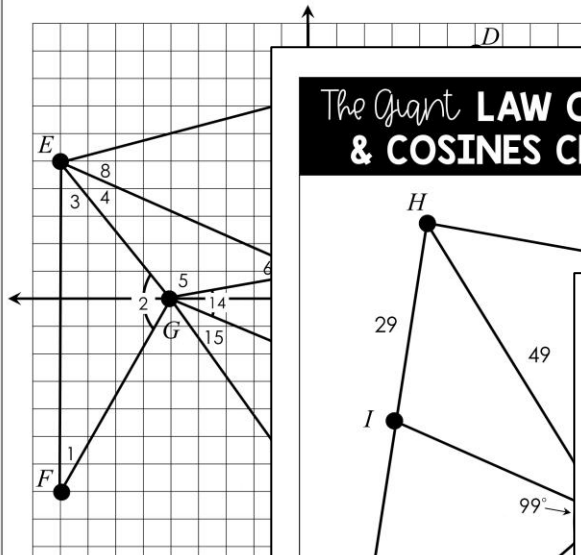
Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Directions: Find each measure. Give side lengths in simplest radical form and angles to the nearest tenth of a degree.

EF = \_\_\_\_\_ IH = \_\_\_\_\_

FG = \_\_\_\_\_ IC = \_\_\_\_\_



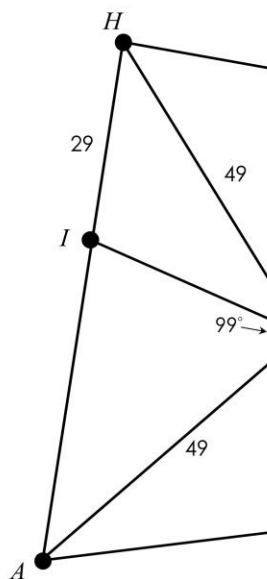
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# The Grant LAW OF SINES & COSINES CHALLENGE! V2

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Directions: Find each measure. Round all measures to the nearest tenth.



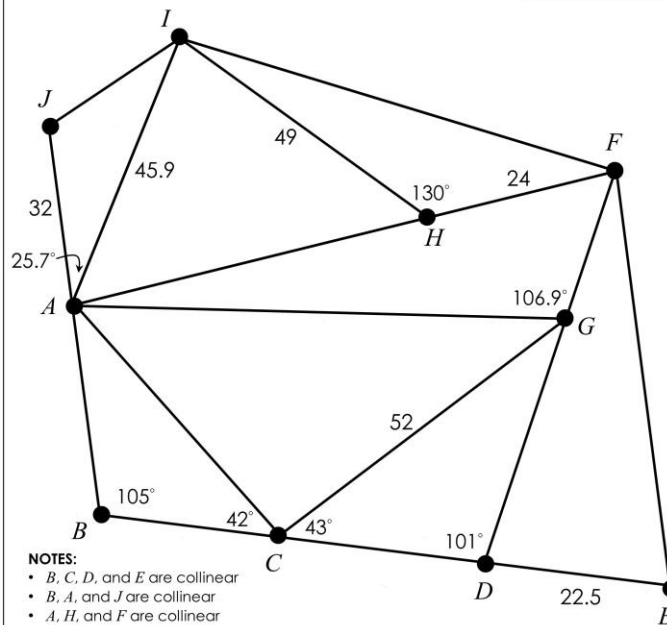
NOTES:  
 • A, B, and C are collinear  
 • A, I, and H are collinear

# The Grant LAW OF SINES & COSINES CHALLENGE! V1

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Directions: Find each measure. Round all measures to the nearest tenth.



NOTES:  
 • B, C, D, and E are collinear  
 • B, A, and J are collinear  
 • A, H, and F are collinear  
 • D, G, and F are collinear

- AC = \_\_\_\_\_  $m\angle AGC$  = \_\_\_\_\_
- AG = \_\_\_\_\_  $m\angle GAC$  = \_\_\_\_\_
- BC = \_\_\_\_\_  $m\angle GAF$  = \_\_\_\_\_
- AB = \_\_\_\_\_  $m\angle AFG$  = \_\_\_\_\_
- AF = \_\_\_\_\_  $m\angle FDE$  = \_\_\_\_\_
- FG = \_\_\_\_\_  $m\angle FED$  = \_\_\_\_\_
- DF = \_\_\_\_\_  $m\angle DFE$  = \_\_\_\_\_
- FE = \_\_\_\_\_  $m\angle CGD$  = \_\_\_\_\_
- CD = \_\_\_\_\_  $m\angle IAH$  = \_\_\_\_\_
- DG = \_\_\_\_\_  $m\angle AIH$  = \_\_\_\_\_
- AH = \_\_\_\_\_  $m\angle AJI$  = \_\_\_\_\_
- JI = \_\_\_\_\_  $m\angle JIA$  = \_\_\_\_\_
- IF = \_\_\_\_\_  $m\angle HIF$  = \_\_\_\_\_
- \_\_\_\_\_  $m\angle IFH$  = \_\_\_\_\_

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