Books Never Written

My Life in the Jungle by _____
56° 23° 72°   66° 6° 45° 77° 29° 29°

Over the Cliff by _____
60° 37° 36° 21°   15° 37° 34° 62° 53°

Catching Butterflies by _____
6° 45° 45° 29° 53° 53° 29°   6° 45° 55° 6° 56° 6° 34°

ABOVE ARE THE TITLES OF THREE "BOOKS NEVER WRITTEN." TO DECODE THE
NAMES OF THEIR AUTHORS, FOLLOW THESE DIRECTIONS:

In any triangle below, find the measure of the lettered angle to the nearest degree. Each
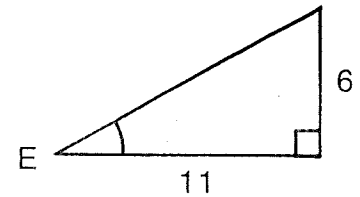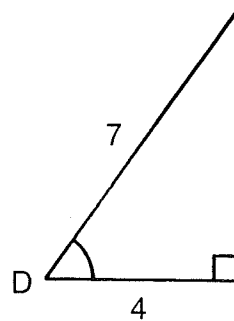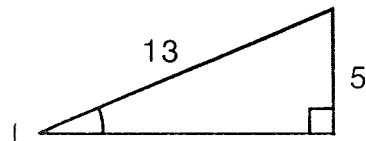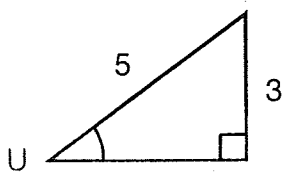time this measure appears in the code, write the letter above it. Keep working and you
will decode the names of all three authors.
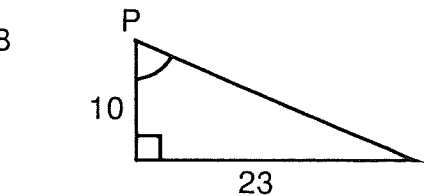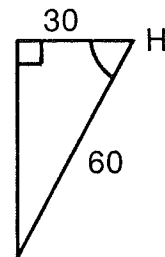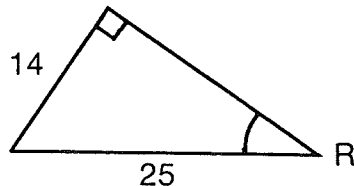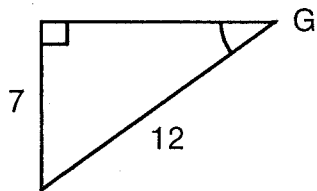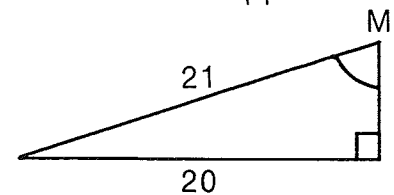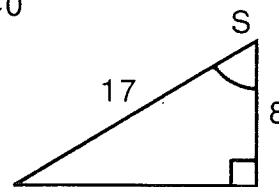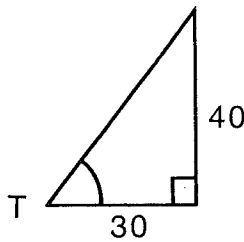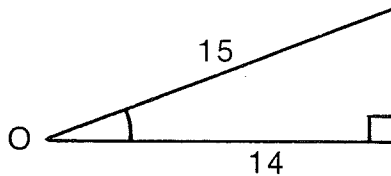
A driveway is built on an
incline so that it rises 2 meters
over a distance of 20 meters.
What is the degree measure of
the slope of the driveway?
(See figure below.)
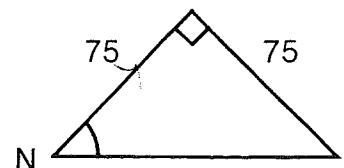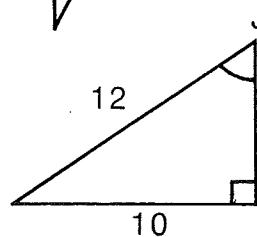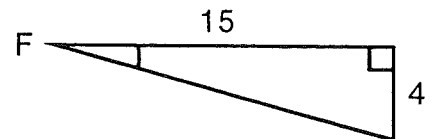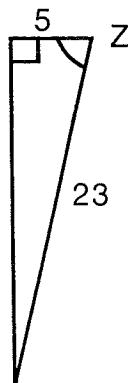
Did You Hear About . . . *Key*

A	B	C	D	E	F	G
H	I	J	K	L	M	N

?

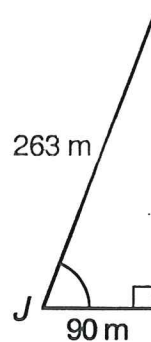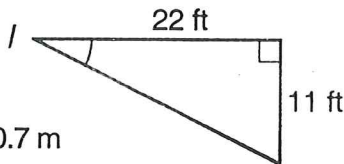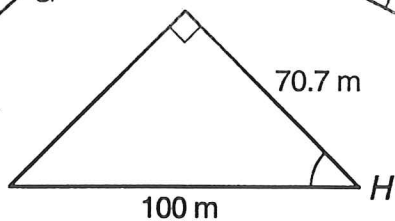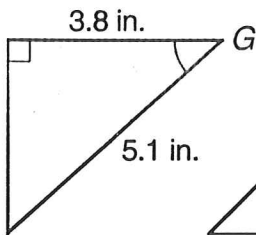For each exercise, find the measure of the indicated angle (round to the nearest degree.) Write the word next to the correct answer in the box that contains the vertex letter.

16 in. 9 in. *A*

7.2 cm 5.8 cm *B*

40 ft 94 ft *C*

12 mi 8 mi

E 25 km 23 km

60 yd 47 yd *F*

3.8 in. *G* 5.1 in.

70.7 m 100 m *H*

22 ft *I* 11 ft

263 m *J* 90 m

Answer	Word
31°	POP
23°	BOTTLE
42°	LESSONS
57°	FIZZ
8°	BECOME
52°	MUSIC
48°	THAT
37°	SONG
27°	ORDER
34°	THE
59°	LITER
10°	WIN
67°	TOOK
50°	ON
39°	BAND
54°	SODA
4°	ONE
45°	IN
6°	A
70°	TO

A wheelchair ramp rises 4.3 ft over a distance of 30 ft. What is the angle of the ramp with the horizontal?

K 30 ft 4.3 ft

A plane descends 1000 ft while flying 1.8 mi. What is the angle of descent? (1 mi = 5280 ft)

L 1.8 mi 1000 ft

M
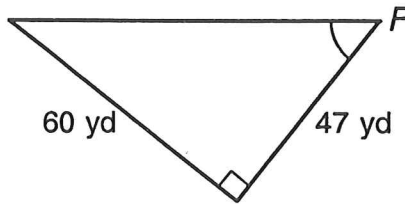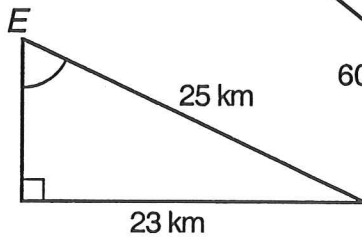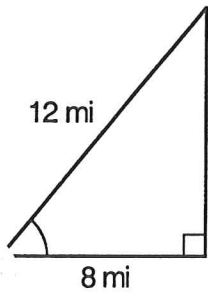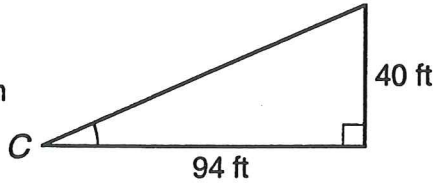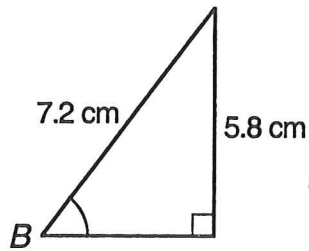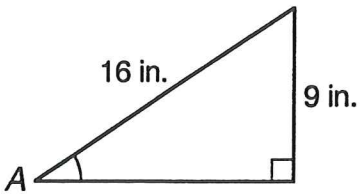
Did You Hear About . . .

THE SODA BOTTLE THAT TOOK MUSIC LESSONS IN ORDER TO BECOME A BAND LITER?

ng a Rocket
. At what
hust a camera
t *N* be aimed
pgraph a
at point *O*?

O 5 km *N* 3 km

A. 34°	B. 54°	C. 23°
D. 48°	E. 67°	F. 52°
G. 42°	H. 45°	I. 27°
J. 70°	K. 8°	L. 6°
M. 39°	N. 59°	

150

Similarity, Transformations, and Trigonometry:
Finding Sides and Angles of Right Triangles

Did You Hear About . . .

A	B	C	D	E	F	G
H	I	J	K	L	M	N ?

For each exercise, find the measure of the indicated angle (round to the nearest degree.)
Write the word next to the correct answer in the box that contains the vertex letter.

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40 ft 94 ft C

12 mi 8 mi D

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60 yd 47 yd F

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I 22 ft 11 ft

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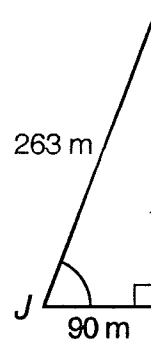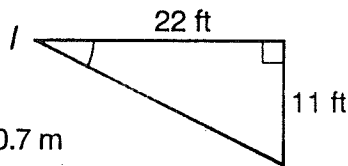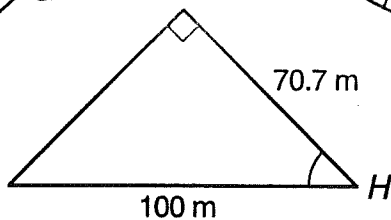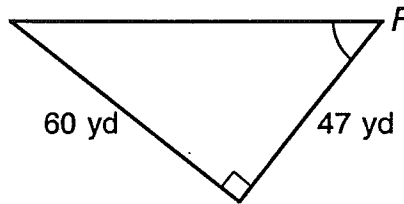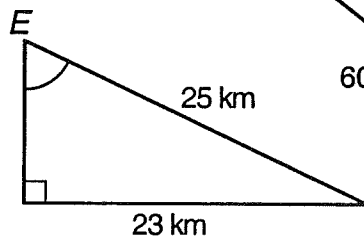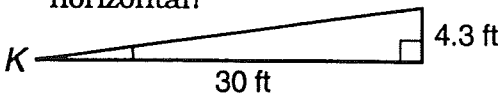
A plane descends 1000 ft while flying 1.8 mi. What is the angle of descent? (1 mi = 5280 ft)

L 1.8 mi 1000 ft

The top of an 18-ft waterslide is 14 ft above the ground. What angle does the slide make with the vertical ladder?

M 14 ft 18 ft

Tracking a Rocket Launch. At what angle must a camera at point N be aimed to photograph a rocket at point O?

O 5 km N 3 km

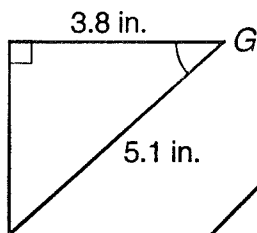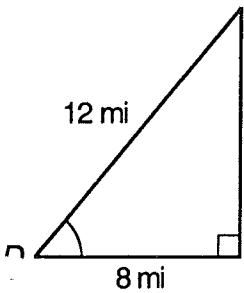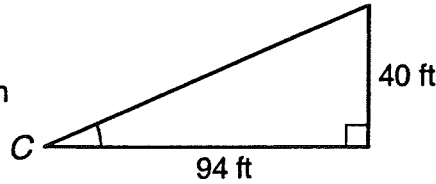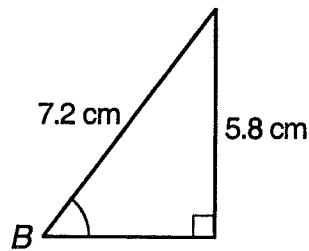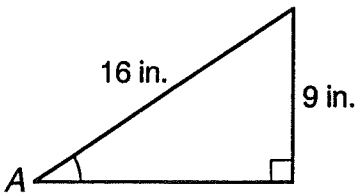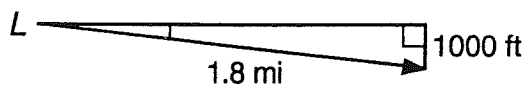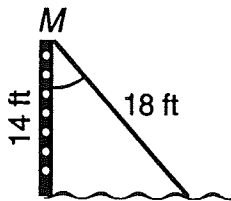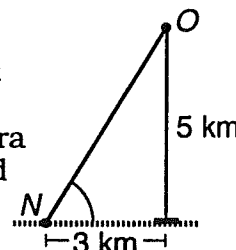| 31° • POP |
|---|
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| 37° • SONG |
| 27° • ORDER |
| 34° • THE |
| 59° • LITER |
| 10° • WIN |
| 67° • TOOK |
| 50° • ON |
| 39° • BAND |
| 54° • SODA |
| 4° • ONE |
| 45° • IN |
| 6° • A |
| 70° • TO |