"Why were the screams coming from the kitchen?"

Make the conversion from degrees to radians and from radians to degrees. To figure out the joke, place the letter of each problem above the answer on the line(s) below.

Convert #1-6 from degrees to radians.

E. 20°   A. 120°   K. -145°

H. 320°   G. -245°   B. 630°

Convert #7-13 from radians to degrees.

N. $\dfrac{\pi}{4}$ W. $\dfrac{2\pi}{5}$ T. $\dfrac{-5\pi}{60}$

S. $\dfrac{7\pi}{6}$ C. $\dfrac{13\pi}{3}$ I. $\dfrac{-5\pi}{4}$ O. $\dfrac{11\pi}{3}$

-15°	$\dfrac{16\pi}{9}$	$\dfrac{\pi}{9}$	780°	660°	660°	$\dfrac{-29\pi}{36}$	72°	$\dfrac{2\pi}{3}$	210°

$\dfrac{7\pi}{2}$	$\dfrac{\pi}{9}$	$\dfrac{2\pi}{3}$	-15°	-225°	45°	$\dfrac{-49\pi}{36}$

-15°	$\dfrac{16\pi}{9}$	$\dfrac{\pi}{9}$	$\dfrac{\pi}{9}$	$\dfrac{-49\pi}{36}$	$\dfrac{-49\pi}{36}$	210°

Converting to and from radians to degrees

Joke #38

47

"What do you call an unemployed jester?"

Find the indicated part of △ ABC. Round your answer to the nearest tenth. To figure out the joke, place the letter of each problem above the answer on the line below.

L.
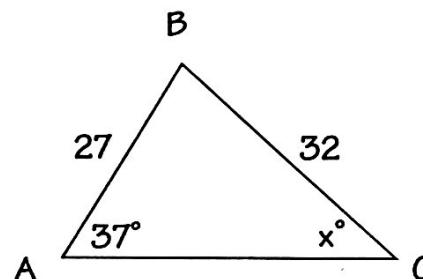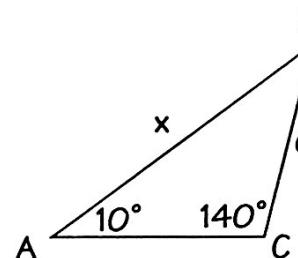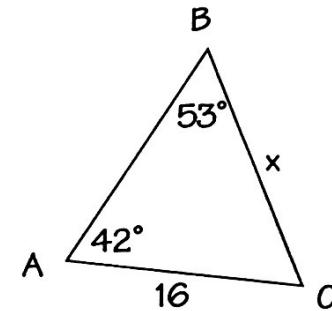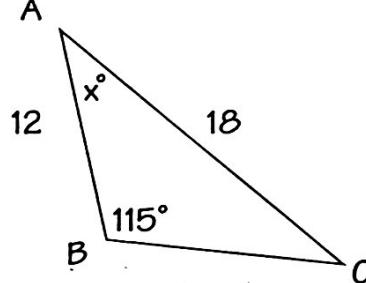
B

27 32

A 37° x° C

O.

B

x 6

A 10° 140° C

B.

B

53° x

A 42°

16 C

D.

A

x°

12 18

B 115° C

O. $c = 12$, $\angle B = 52°$, $\angle C = 57°$, $b =$ _____

S. $a = 22$, $c = 15$, $\angle A = 30°$, $\angle C =$ _____

Y. $a = 42$, $b = 54$, $\angle A = 35°$, $\angle B =$ _____

O. $a = 17$, $b = 16$, $\angle A = 45°$, $\angle B =$ _____

F. $c = 38$, $\angle A = 40°$, $\angle C = 95°$, $b =$ _____

N. $a = 2.7$, $b = 3.2$, $\angle B = 37°$, $\angle C =$ _____

O. $a = 18$, $\angle A = 23°$, $\angle C = 70°$, $b =$ _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
112.5   11.3   13.4 46.0 27.8   47.5   19.9   27.0   22.2   41.7   30.5

Law of Sine

Joke #42

51

# "What do you call a cow with no legs?"

Find the indicated part of △ABC. Round your answer to the nearest tenth. To figure out the joke, place the letter of each problem above the answer on the line below.

R.
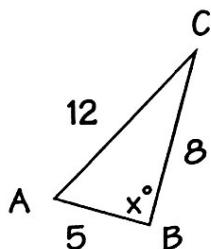
E.
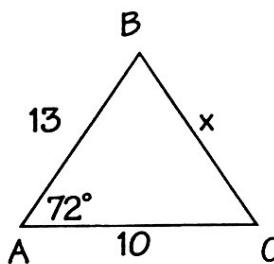
U.
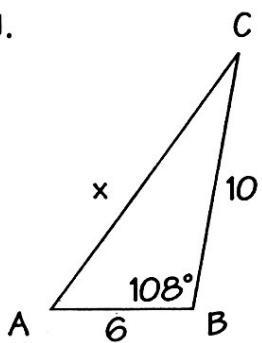
D.
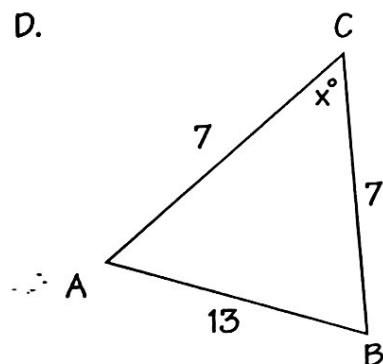
E. $a = 2, c = 9, \angle B = 70°, b =$ _____

O. $a = 12, b = 14, c = 19, \angle A =$ _____

F. $a = 8, c = 13, \angle B = 83°, b =$ _____

N. $a = 3, b = 5, c = 7, \angle C =$ _____

G. $b = 24, c = 34, \angle A = 120°, a =$ _____

B. $a = 0.8, b = 2.8, C = 2.2, \angle B =$ _____

___ ___ ___ ___ ___ ___ ___ ___ ___
50.5 133.4 39.1 13.2 120 136.4 132.1 13.7 8.5 14.4

Law of Cosine   Joke #43

52

"What is a plumber's favorite flower?"

Find the area of △ ABC. Round your answer to the nearest hundredth. To figure out the joke, place the letter of each problem above the answer on the line below.

U.

B

3

45°

A   5   C

A.

B   16   C

9

22

A

N.

C

9   6

A   4   B

E.

A

8

30°

C   7   B
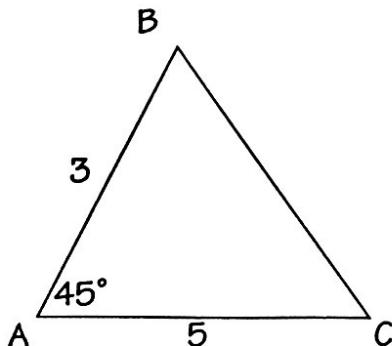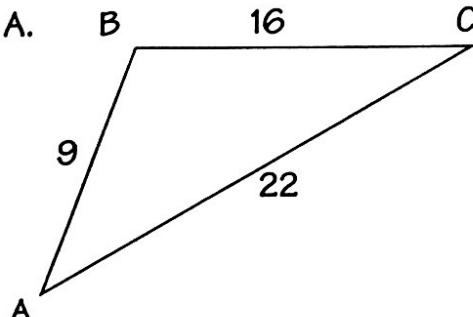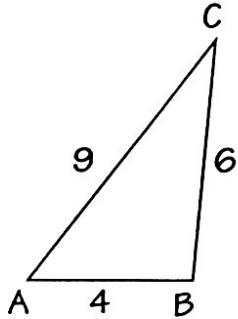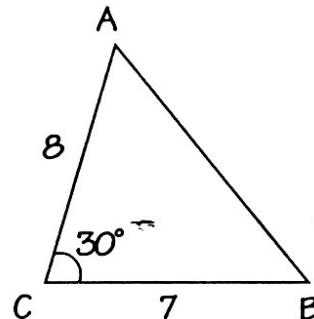
E.   a = 4, b = 4, c = 6

I.   b = 3, c = 2, ∠A = 110°

M. a = 10, c = 12, ∠B = 43°

R.   a = 3, b = 10, c = 8

S.   a = 14, b = 3, c = 12

D.   a = 9, b = 4, ∠C = 22°

___ ___ ___ ___ ___ ___ ___ ___ ___ ___

6.74   9.92   61.91   2.82   9.56   14   7.94   5.30   40.92   14.44

Area of a Triangle using Heron's Formula and $A = \frac{1}{2} ab \sin y$

Joke #44

53