

Why Did the Professional Dog Walker Go Out of Business?

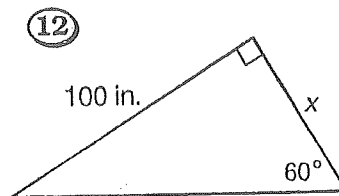
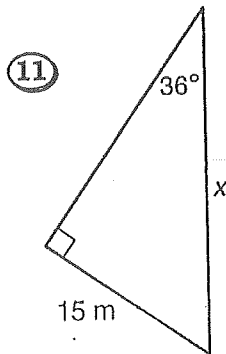
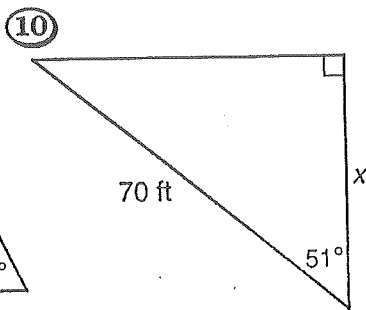
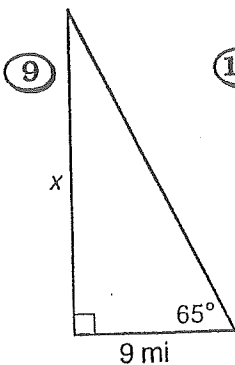
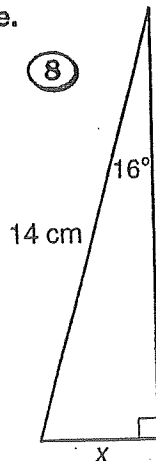
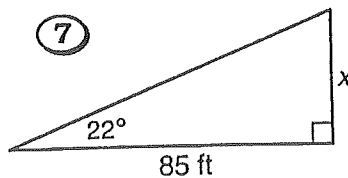
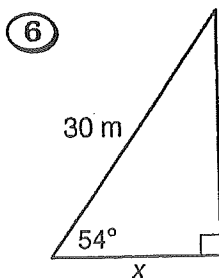
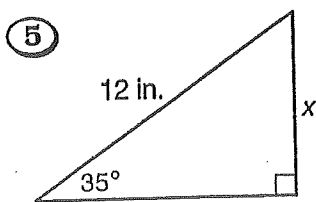
Cross out the letters above each correct answer. When you finish, write the remaining letters in the spaces at the bottom of the page.



In Exercises 1-4, solve the equation. Round your solution to two decimal places.

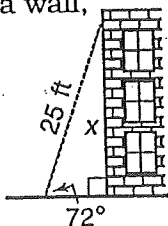
- ① $\sin 27^\circ = \frac{x}{8}$ ② $\tan 18^\circ = \frac{n}{75}$ ③ $\sin 40^\circ = \frac{4}{a}$ ④ $\cos 5^\circ = \frac{92}{y}$

In Exercises 5-12, find the length of the side labeled x . Round to one decimal place.

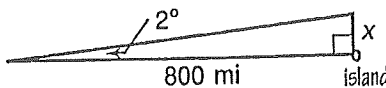


In Exercises 13-15, find the required length. Round to one decimal place.

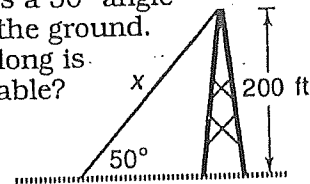
- ⑬ When a 25-ft ladder is leaned against a wall, it makes a 72° angle with the ground. How high up on the wall does the ladder reach?



- ⑭ A ship is sailing toward a small island 800 mi away. If the ship is 2° off course, by how many miles will it miss the island?



- ⑮ A cable from the top of a 200-ft telephone tower makes a 50° angle with the ground. How long is the cable?



SO	ME	HE	RE	AT	LO	VE	BE	FA	ST	OP
19.3 mi	6.22	29.6 ft	57.7 in.	17.6 m	4.5 cm	261.1 ft	3.63	34.3 ft	53.4 in.	23.8 ft
HI	GH	RE	SL	OW	IT	EA	CH	UP	CA	SH
89.65	6.9 in.	44.1 ft	258.5 ft	27.9 mi	24.37	24.1 m	3.9 cm	92.35	25.5 m	21.5 mi

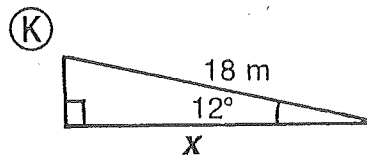
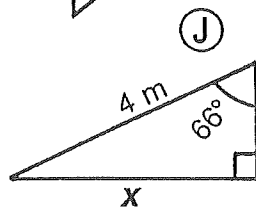
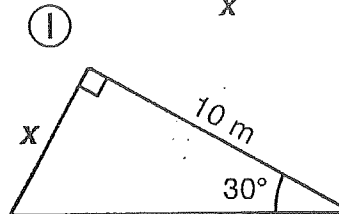
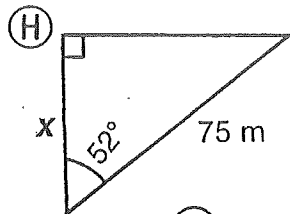
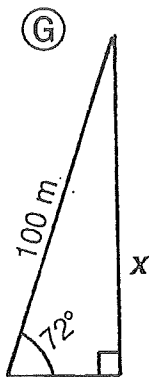
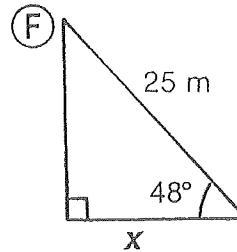
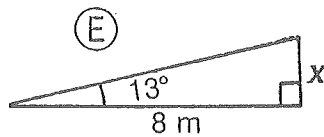
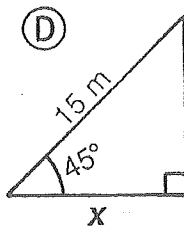
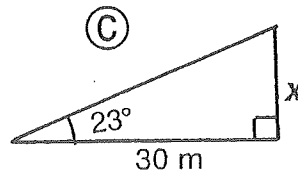
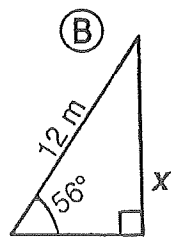
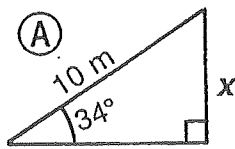
Did You Hear About...

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

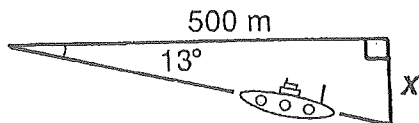
DIRECTIONS:

In any triangle below, find the length x . Round it to the nearest 0.1 meter. Find your answer in the answer column and notice the word next to it. Write this word in the box that has the same letter as that triangle.

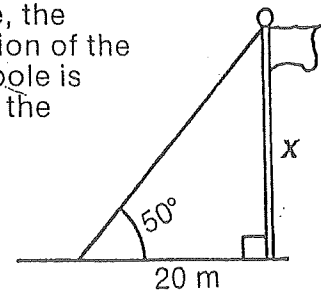
KEEP WORKING AND YOU WILL HEAR ABOUT A NOVEL NAME!



(L) A submarine dives at an angle of 13° . How far is it beneath the surface at a point 500 meters along the surface from where it submerged?



(M) At a point 20 meters from a flagpole, the angle of elevation of the top of the flagpole is 50° . How tall is the flagpole?



16.8 m—ROBINS
3.7 m—BECAUSE
16.7 m—ROOSTER
23.8 m—SO
46.2 m—NAME
22.7 m—SUN
44.9 m—BEST
5.6 m—THE
87.3 m—WAS
3.2 m—BANKS
10.6 m—GAVE
98.5 m—WRECKED
5.8 m—ROBINSON
9.9 m—FARMER
115.5 m—CREW
17.6 m—HE
12.7 m—WHO
15.4 m—PET
95.1 m—THE
1.8 m—HIS