

DAFFYNITION DECODER

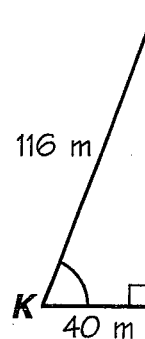
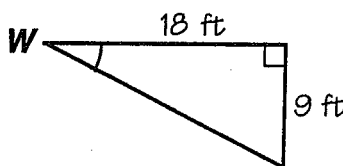
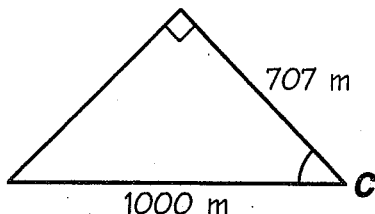
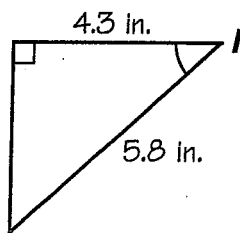
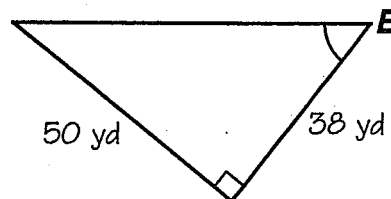
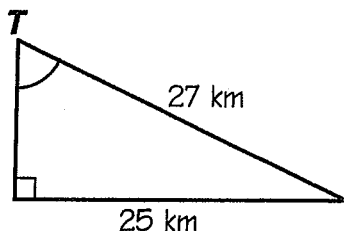
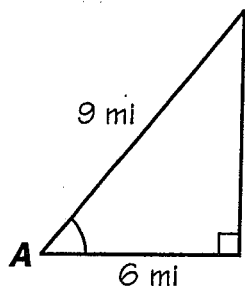
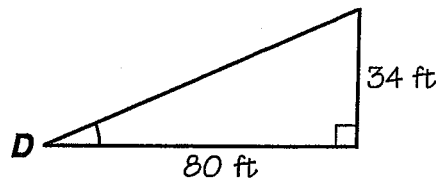
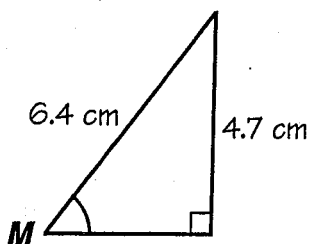
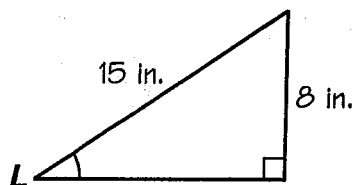
• **Ozone**

31° 32° 48° 45° 6° 29° 53° 6° 68° 27° 6° 6° 37° 5° 37° 5° 48° 37° 23° 8° 31°

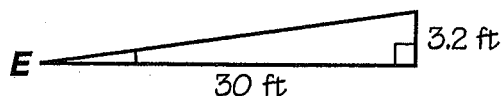
• **Mistletoe**

70° 42° 4° 4° 34° 47° 42° 4° 4° 72° 31° 32° 48° 37° 68°

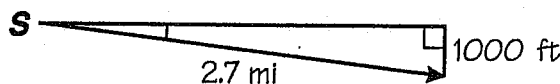
Find the measure of the angle that is marked (round to the nearest degree).
Each time your answer appears in the code, write the vertex letter above it.



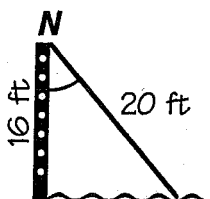
An access ramp rises 3.2 ft over a distance of 30 ft. What is the angle of the ramp with the horizontal?



A plane descends 1000 ft while flying 2.7 mi. What is the angle of descent? (1 mi = 5280 ft)

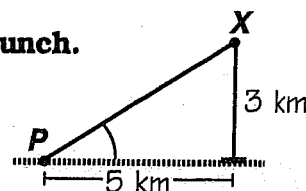


The top of a 20-ft waterslide is 16 ft above the ground. What angle does the slide make with the vertical ladder?



Tracking a Rocket Launch.

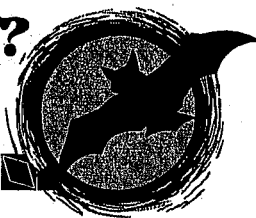
At what angle must a camera at point P be aimed to photograph a rocket at point X?



*Must show work for full credit on separate sheet of paper

Who Turns Out the Lights on Halloween?

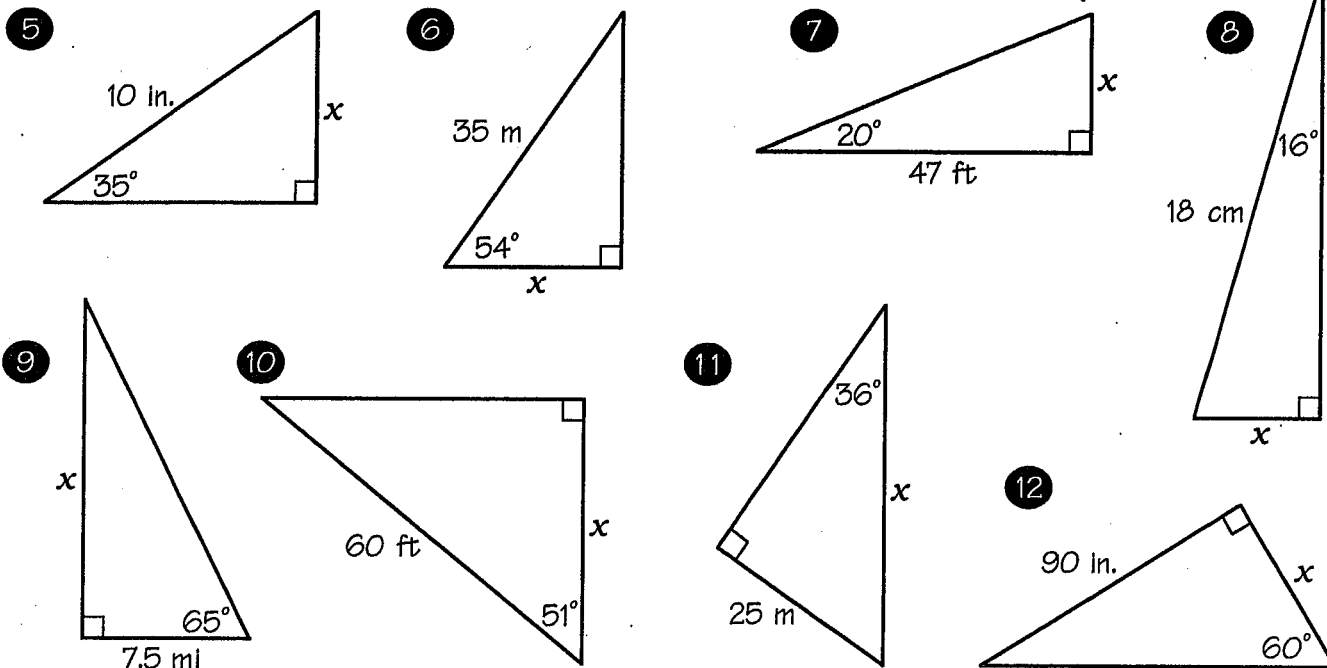
Cross out the letters above each correct answer. When you finish, write the remaining letters in the spaces at the bottom of the page.



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

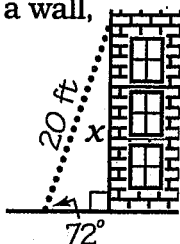
1 $\sin 22^\circ = \frac{x}{15}$ 2 $\tan 75^\circ = \frac{n}{80}$ 3 $\sin 48^\circ = \frac{7}{a}$ 4 $\cos 6^\circ = \frac{92}{k}$

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

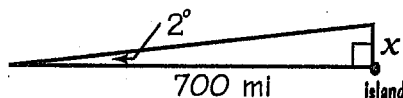


In Exercises 13-15, find the required length. Round to one decimal place.

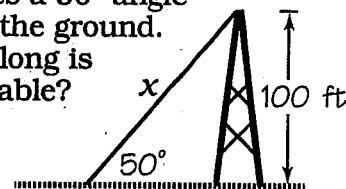
- 13 When a 20-ft ladder is leaned against a wall, it makes a 72° angle with the ground. How high up on the wall does the ladder reach?



- 14 A ship is sailing toward a small island 700 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 100-ft telephone tower makes a 50° angle with the ground. How long is the cable?



SO	TH	AC	AT	EB	EL	ME	AB	IG	ET	OO
42.5 m	22.5 ft	20.6 m	5.0 cm	130.5 ft	128.1 ft	92.51	19.0 ft	4.7 cm	16.1 ml	298.57
HT	OP	SW	AY	IN	QU	IT	UP	MU	CH	ON
55.4 in.	9.42	20.3 ml	24.4 ml	5.62	37.8 ft	38.1 m	17.1 ft	52.0 in.	95.32	5.7 in.