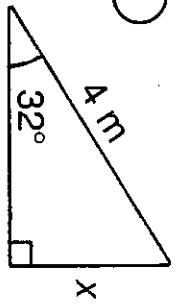


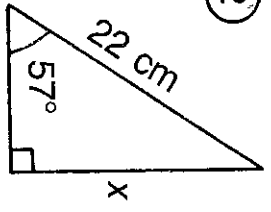
What Do They Call the Big Grass Field on an Orbiting Satellite?

For the first eight exercises, find the length x . For the remaining exercises, find the length needed to solve the problem. Round each answer to the nearest tenth. Cross out each box that contains a correct answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

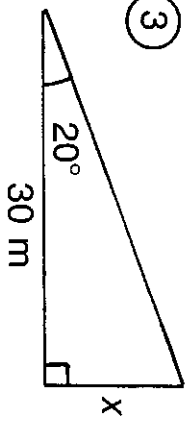
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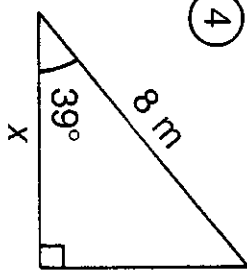
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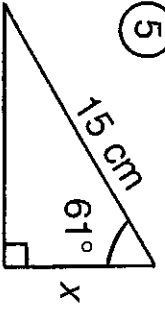
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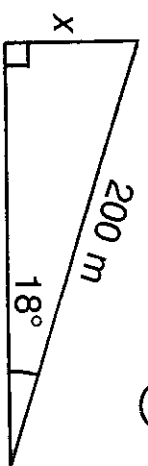
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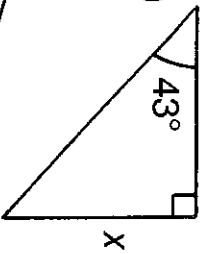
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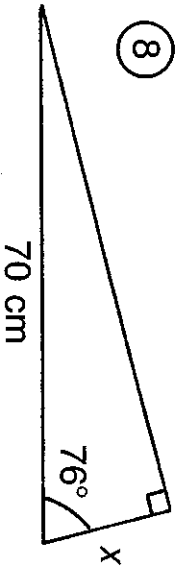
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7

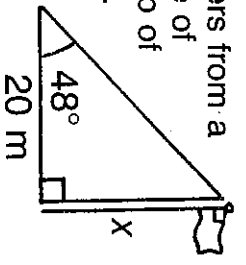


8



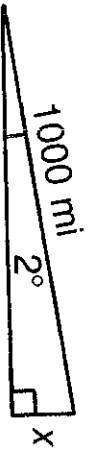
9

At a point 20 meters from a flagpole, the angle of elevation of the top of the flagpole is 48° . How tall is the flagpole?



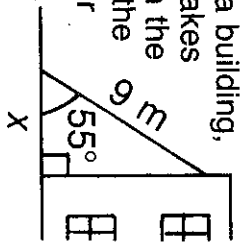
10

If a rocket flies 2° off course for 1000 miles, how far from the correct path will the rocket be?



11

As it leans against a building, a 9-meter ladder makes an angle of 55° with the ground. How far is the bottom of the ladder from the base of the building?



TH	AP	ET	E	AR	UN	A	KI	SS
4.7 m	5.4 m	5.2 m	2.1 m	23.5 m	6.2 m	22.2 m	28.7 mi	61.8 m
RU	NS	TO	P	UP	A	KY	NI	CE
18.5 cm	3.2 m	7.3 cm	63.6 m	34.9 mi	15.3 cm	10.9 m	16.9 cm	17.1 cm

Why Did Klutz Lift Off a Manhole Cover and Dive In?



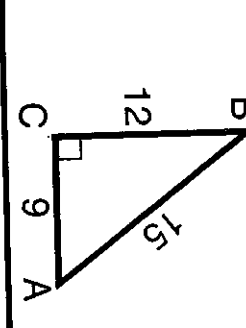
For each exercise, select the correct ratio from the four choices given. Write the letter of the correct choice in the box that contains the number of that exercise.

OBJECTIVE 5-a: To give the sine, cosine, and tangent of an acute angle of a right triangle.

1 $\sin A$ E $\frac{12}{13}$ I $\frac{5}{13}$
 2 $\cos A$ H $\frac{5}{12}$ V $\frac{13}{5}$
 3 $\tan A$

- 13 $\sin A$
 14 $\cos A$
 15 $\tan A$

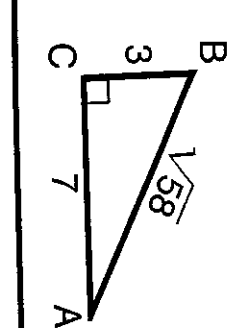
- U $\frac{5}{3}$ S $\frac{3}{5}$
 R $\frac{4}{3}$ E $\frac{4}{5}$



4 $\sin B$ N $\frac{13}{5}$ E $\frac{5}{13}$
 5 $\cos B$ O $\frac{12}{13}$ I $\frac{12}{5}$
 6 $\tan B$

- 16 $\sin B$
 17 $\cos B$
 18 $\tan B$

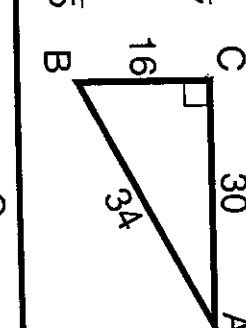
- D $\frac{3}{\sqrt{58}}$ B $\frac{3}{7}$
 G $\frac{7}{\sqrt{58}}$ M $\frac{7}{3}$



7 $\sin A$ A $\frac{\sqrt{3}}{2}$ M $\frac{1}{2}$
 8 $\cos A$ S 2 T $\frac{1}{\sqrt{3}}$
 9 $\tan A$

- 19 $\sin A$
 20 $\cos A$
 21 $\tan A$

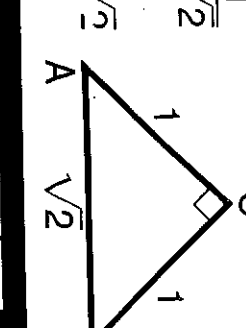
- T $\frac{15}{17}$ S $\frac{8}{17}$
 R $\frac{17}{8}$ C $\frac{8}{15}$



10 $\sin B$ I $\sqrt{3}$ N $\frac{1}{2}$
 11 $\cos B$ E $\frac{\sqrt{3}}{2}$ P $\frac{1}{\sqrt{3}}$
 12 $\tan B$

- 22 $\sin A$
 23 $\cos A$
 24 $\tan A$

- W $\frac{1}{\sqrt{2}}$ W $\frac{1}{\sqrt{2}}$
 C 1 L $\sqrt{2}$



3	10	22	8	14	21	4	7	18	1	9	20	6	11	16	19	13	23	2	15	24	12	17	5
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