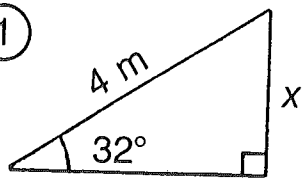
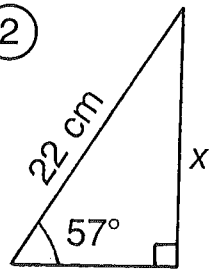
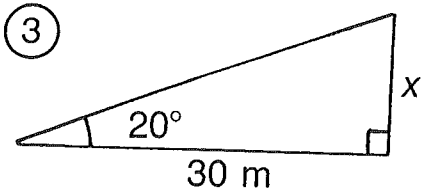
OBJECTIVE 5–c: To use trigonometric ratios to find lengths of sides of right triangles.

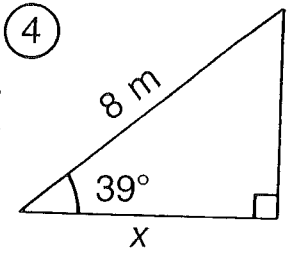
What Do They Call the Big Grass Field on an Orbiting Satellite?

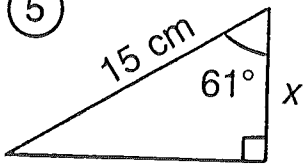
For the first eight exercises, find the length x. For the remaining exercises, find the length needed to solve the problem. Round each answer to the nearest tenth. Cross out each box that contains a correct answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom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

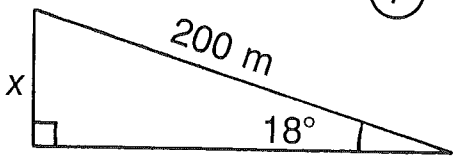
① 

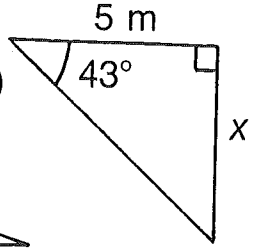
② 

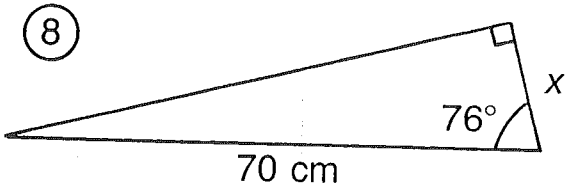
③ 

④ 

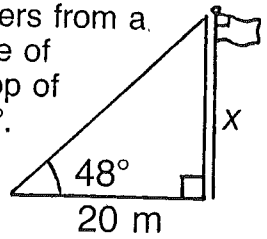
⑤ 

⑥ 

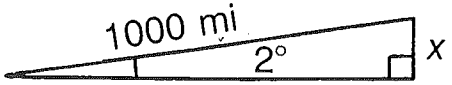
⑦ 

⑧ 

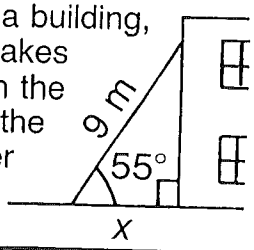
⑨ At a point 20 meters from a flagpole, the angle of elevation of the top of the flagpole is 48°. How tall is the flagpole?



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

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