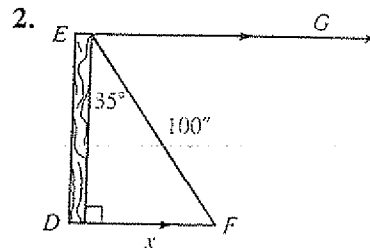
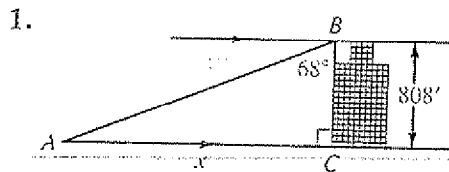


Problem Solving Reminders

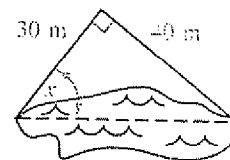
- Use the trigonometric ratio that is the most convenient to solve.
- Use a table or a scientific calculator to help you solve the ratio.

CLASS EXERCISES

Write an equation to find x . Then solve to the nearest whole number.



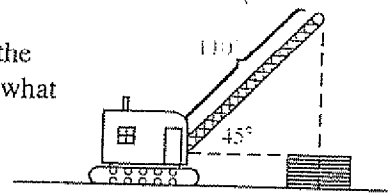
- In Exercise 1, name the angle of elevation from point A and its measure.
- In Exercise 2, name the angle of depression from point E and its measure.
- A surveyor must find the angle denoted by x . Write and solve an equation to find x to the nearest degree.



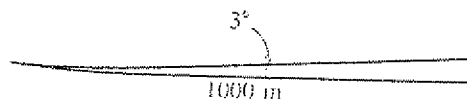
PRACTICE EXERCISES

Find the distance to the nearest whole number and the angle measure to the nearest degree.

- A 110-ft crane set at an angle of 45° to the horizontal can raise building material to what height?



- The angle of elevation from a ship to the top of a lighthouse is 3° . If the ship is 1000 m from the lighthouse, how tall is the lighthouse?



- A ship's pilot knows that a building on the coast is 100 m tall. If he finds the angle of elevation to be 2° , how far is the ship from the coastline?

