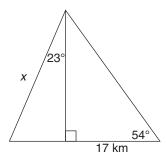


Check Up

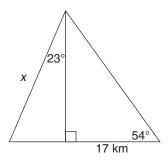
1. Describe steps you could follow to determine the value of *x* in the diagram. You will complete this solution as part of your *Explore Your Understanding Assignment*.





Compare your answer.

1. Describe steps you could follow to determine the value of *x* in the diagram. You will complete this solution as part of your *Explore Your Understanding Assignment*.



Strategies may vary, a sample is shown.

- Use the 54° angle, the 17 km side length, and the tangent ratio to determine the length common to the two right triangles (the height).
- Use the newly determined length, the 23° angle, and the cosine ratio to determine x.

The following problem requires multiple triangles to solve. As before, draw an appropriate diagram and add any calculated values to the diagram as you go.

Multimedia



A video demonstration of the solution for *Example 2* has been provided.