## Lesson 8 <br> Assignment

## Finding Angles in Right Triangles

1. A right triangle has an unknown angle. If the opposite side is 69.9 m and adjacent side is 70.6 m , what is the measure of the angle?
2. The hypotenuse of a right triangle is 23.96 cm and one leg is 11.09 cm long. What is the angle opposite to the 11.09 cm side?
3. Determine the measure of $\angle \mathrm{D}$ to the nearest tenth of a degree.

4. Determine the measure of $\angle \mathrm{N}$ to the nearest tenth of a degree.

5. Determine the tangent ratio for $\angle \mathrm{K}$.

6. Determine the measure of $\angle \mathrm{D}$ to the nearest tenth of a degree.

7. Determine the measure of $\angle \mathrm{Q}$ to the nearest tenth of a degree.

8. Determine the measure of $\angle \mathrm{Y}$ to the nearest tenth of a degree.
$5.1)^{\text {P }}$
9. Determine the measure of $\angle \mathrm{V}$ to the nearest tenth of a degree.

10. Determine the measure of $\angle \mathrm{B}$ to the nearest tenth of a degree.


## Problem

11. Find $x$ in the diagram below.

12. Find the value of $\angle \mathrm{A}$ and $\angle \mathrm{B}$ given the following measures:
$x=72 \mathrm{~cm}$
$y=41 \mathrm{~cm}$
$z=34 \mathrm{~cm}$

