Lesson 8 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 $\angle D$ to the nearest tenth of a degree.



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



5. Determine the tangent ratio for $\angle K$.



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



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



8. Determine the measure of $\angle Y$ to the nearest tenth of a degree.



9. Determine the measure of $\angle V$ to the nearest tenth of a degree.



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



Problem

11. Find *x* in the diagram below.



- 12. Find the value of $\angle A$ and $\angle B$ given the following measures:
 - x = 72 cm
 - y = 41 cmz = 34 cm

