1. You are designing a concrete arch bridge. Calculate the area of the side of the bridge (shown below) from the dimensions given. The bottom of the arch is a circular arc.

![Diagram of an arch bridge with dimensions 20' wide, 7' high, and 5' at the top]
2. You are investigating an auto accident. As part of your analysis, you need to determine the length of a (circular) curved section of highway. Calculate the arc length of the curve between Point A and Point B shown below.