

**Solution trigonometry problem:**

- 1. Draw right triangle ABC such that CA represents 100, CB represents 7 , BA represents the roadway, angle C = 90, and angle A is the angle you are determining.**
- 2.  $\tan(A) = CB/CA = 7/100$**

**Angle A = 4 degrees**

- 3.  $\sin(4 \text{ degrees}) = CB/BA = CB/2640$   
 $CB = (.06975) \times 2640 = 184 \text{ feet}$**