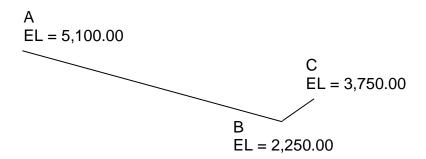
Key



1. What is the elevation of the midpoint of line AB?

## 3675.00 feet

2. If the grade from A to B is -4.321% and the station at A is 4+56.78, what is the station at B?

### <u>664+13.73</u>

3. What is the horizontal distance in stations from B to the point with elevation 3456.78 on line AB?

## -279.2826 stations

4. If it is exactly 1.5 miles from B to C, what is the percent grade along this line?

## +18.939%

5. What is the elevation at the point 3500.00 feet (horizontally) from C on line BC?

## 3087.12 feet

6. How far is it in stations from A to C?

## 738.7695 stations

7. What zenith angle would be equivalent to -4.321%?

# 92°28'27"

8. What is the zenith angle to line BC at B?

## 79°16'32"