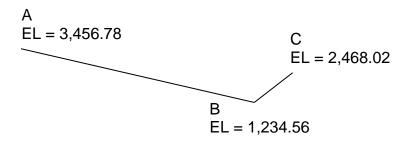
Key



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

2345.67 feet

2. If the grade from A to B is -4.567% and the station at A is 4+32.10, what is the station at B?

490+90.30

What is the horizontal distance in stations from B to the point with elevation 2000.00 on line AB?

-167.6024 stations

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

15.574%

5. What is the elevation at the point 5000.00 feet (horizontally) from C on line BC?

1689.32 feet

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

565.7820 stations

7. What zenith angle would be equivalent to -4.567%?

92°36'54"

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

81°08'52"