Example #2   STRAIGHT   Page 1 of 1
                              GRADES

A
EL = 3,456.78

C
EL = 2,468.02

B
EL = 1,234.56

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

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 ?

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

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

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

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

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

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