Find the variance for the following set of data representing trees in California (heights in feet):

3, 21, 98, 203, 17, 9

Mean of the above numbers = 3+21+98+203+17+9 = 58.5

6

Difference of each data point from the mean:-

1. 3 - 58.5 = -55.5

2. 21 - 58.5 = -37.5

3. 98 - 58.5 = 39.5

4. 203 - 58.5 = 144.5

5. 17 - 58.5 = -41.5

6. 9 - 58.5 = -49.5

Squaring the equivalent values derived from the above calculation:-

1. Square of -55.5 = 3080.25

2. Square of -37.5 = 1406.25

3. Square of 39.5 = 1560.25

4. Square of 144.5 = 20880.25

5. Square of -41.5 = 1722.25

6. Square of -49.5 = 2450.25

**Variance of the above numbers = 3080.25+1406.25+1560.25+20880.25+1722.25+2450.25 = 5183.25**

**6**