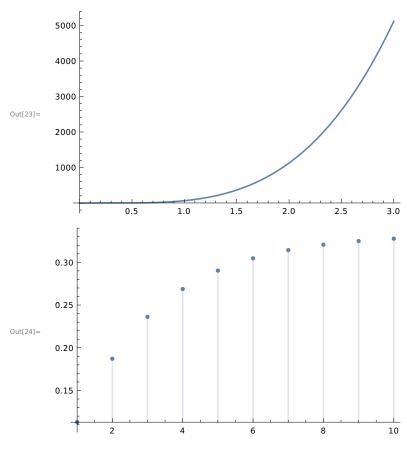
```
ln[18] = f[x] := 27 x^4 + 162 x^3 - 180 x^2 + 62 x - 7;
ln[19]:= Subscript [x, 0] = 0;
      \epsilon = 0.000005;
ln[21]:= Nmax = 10;
ln[22]:= For[i = 1, i \leq Nmax, i++,
        Subscript [x, i] = N[Subscript [x, i-1] - (f[Subscript [x, i-1]]/f'[Subscript [x, i-1]])];
      If [Abs [Subscript [x, i] - Subscript [x, i-1]] < \epsilon, Return [Subscript [x, i]]];
      Print[i, "th iteration value is ", N[Subscript [x, i]]];
      Print["Estimated error is ", Abs[Subscript [x, i] - Subscript [x, i-1]]]];
      Plot[f[x], \{x, 0, 3\}]
      DiscretePlot [Subscript [x, i], {i, 1, 10}]
      DiscretePlot [Abs[Subscript [x, i] - Subscript [x, i - 1]]]
      1th iteration value is 0.112903
      Estimated error is 0.112903
      2th iteration value is 0.187147
      Estimated error is 0.0742436
      3th iteration value is 0.236208
      Estimated error is 0.0490615
      4th iteration value is 0.268729
      Estimated error is 0.0325205
      5th iteration value is 0.290328
      Estimated error is 0.0215988
      6th iteration value is 0.304691
      Estimated error is 0.0143635
      7th iteration value is 0.314251
      Estimated error is 0.0095599
      8th iteration value is 0.320617
      Estimated error is 0.00636631
      9th iteration value is 0.324858
      Estimated error is 0.00424112
      10th iteration value is 0.327685
      Estimated error is 0.00282605
```



DiscretePlot: DiscretePlot called with 1 argument; 2 arguments are expected.

 $Out[25] = DiscretePlot [Abs[x_i - x_{i-1}]]$