1. Use Newton’s Method to determine x2 for f(x)=x3-7x2+8x-3 if x0 = 5

Step 1

d/dx(x3-7x2+8x-3)

=d/dx(x3) - d/dx(7x2) + d/dx(8x) - d/dx(3)

= 3x2-14x+8

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| iteration | xi | Xi+1 | F(xi) | F’(xi) | ea |
|  | X0 | X1 | F(x0) | F’(x0) |  |
|  |  |  |  |  |  |
|  |  | Answer |  |  |  |

