

32. One numerical method for calculating the cubic root of a number, $\sqrt[3]{P}$ is Halley's method. The solution process starts by choosing a value x_1 as a first estimate of the solution. Using this value, a second, more accurate value x_2 is calculated with, $x_2 = x_1(x_1^3 + 2P) / (2x_1^3 + P)$ which is then used for calculating a third, still more accurate value x_3 , and so on. The general equation for calculating the value of x_{i+1} from the value of x_i is $x_{i+1} = x_i(x_i^3 + 2P) / (2x_i^3 + P)$. Write a MATLAB program that calculates the cubic root of a number. In the program use $x_1 = P$ for the first estimate of the solution. Then, by using the general equation in a loop, calculate new, more accurate values. Stop the looping when the estimated relative error E defined by $E = \left| \frac{x_{i+1} - x_i}{x_i} \right|$ is smaller than 0.00001. Use the program to calculate:

(a) $\sqrt[3]{800}$

(b) $\sqrt[3]{59071}$

(c) $\sqrt[3]{-31.55}$

Solution

Script File:

```
P=input('Enter a number for calculating its cubic root:
');
xi=P*(P^3+2*P)/(2*P^3+P);
for n=1:30
    xip1=xi*(xi^3+2*P)/(2*xi^3+P);

    if abs((xip1-xi)/xi)<0.00001
        QRP=xip1;
        break
    end
    xi=xip1;
end
fprintf('the qubic root of %g is %g\n',P,QRP)
```

Command Window:

```
Enter a number for calculating its cubic root: 800
the qubic root of 800 is 9.28318

Enter a number for calculating its cubic root: 59071
the qubic root of 59071 is 38.9456

Enter a number for calculating its cubic root: -31.55
the qubic root of -31.55 is -3.15985
```

Matlab Chapter Solution

F Rizvi



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