Spring 2021 - Nonlinear Equations - Chapter 03 - Part 1

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* Required

1. For a certain cubic equation with real coefficients, at least one of the roots is known to be a complex root. How many complex roots does the cubic equation have? *

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ cannot be determined

2. If for a real continuous function f(x), f(a)*f(b)<0, then in the domain [a, b] for f(x)=0 there is (are) *

- ◯ one root
- ◯ at least one root
- ◯ undeterminable number of roots
- ◯ no roots

3. The root of equation f(x)=0 is found by using the Newton-Raphson method.
   The initial estimate of the root is x0=3.
   Given if f(3)=5
   The angle the tangent line to the function f(x) at x=3 makes with the x-axis is 57 degrees.
   The next estimate of the root most nearly is *

- ◯ -3.2470
- ◯ -0.2470
- ◯ 3.2470
- ◯ 6.2470

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