

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 $f(x)$, $f(a) \cdot f(b) < 0$, 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 $x_0=3$.

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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