- 1. Let $f(x) = x^3 3x^2 + x + 1$
 - (a) Show that f(x) has a root between x = 2 and x = 4
 - (b) Approximate the value of the root accurate to within 0.1 of its exact value
- 2. Let $g(x) = x^3 + x^2 6x$
 - (a) Factor g(x) to find its roots
 - (b) On which intervals is g(x) positive? On which intervals is g(x) negative?

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