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EX.1.4.2, Sauer3

Apply two steps of Newton's Method with initial guess $x_0 = 1$.

a.
$$x^3 + x^2 - 1 = 0$$
;

b.
$$x^2 + \frac{1}{x+1} - 3x = 0;$$

c.
$$5x - 10 = 0$$
.