A.1 Newton's Method

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For, $\frac{1}{100}[x^4 + (e - 2 - \sqrt{2})x^3 + (2\sqrt{2} - \sqrt{2}e - 3 - 2e)x^2 + (2\sqrt{2}e + 3\sqrt{2} - 3e)x + 3\sqrt{2}e] = 0$, all approximated solutions are: $-e, -1, 3, \sqrt{2}$

For, $\tan(x) - x - 2 = 0$. Two positive solutions are: $1.274392679, 4.56114043$. And, two negative solutions are: $-4.30268867177960, -7.67970225074699$.