C3 Coursework Functions List 2014/15

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| Decimal Search: Success | Decimal Search: Failure |
| x3 + 2x2 – 5x – 3  x3 + 2x2 – 5x – 2  x3 +2 x2 – 5x – 1  2x3 + 2x2 – 4x – 2  2x3 - 3x2 – 3x +1 | 2x³ –2x² – 2x – 0.1  2x³ –2x² – 2x – 0.2  –2x³ +2x² + 2x + 0.2  –2x³ +2x² + 2x + 0.3  x³ –2x² – 3x – 0.3 |
| Newton-Raphson: Success | Newton-Raphson: Failure |
| 2x³ + 4x² - 5x - 4  2x³ + 4x² - 3x - 4  x³ + 4x² - 3x - 4  2x³ + 4x² - 2x - 1  3x³ + 5x² - 2x - 1 | x³ + 2x² - 7x + 3  x³ + 2x² - 7x – 2  3x³ + 2x² - 9x - 1  3x³ + 2x² - 8x – 1  4x³ + 3x² - 8x - 1 |
| Rearrangement |  |
| x³+2x²–3x–3  x³+2x²–3x–5  x³–5x–3  x³–6x+3  x³–8x-4 |  |