NMIT1 P06 Aufg2 - ungerpet

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V[Kugelsegment] = ((n^2 * Pi)/3)(3r - h); h: H\"{o}he, r: Radius \\ V=(n^2 * Pi/3)(15-h) = 471 \\ h^2 * Pi * (15-h) = 1413 \\ f(x) = n^2 * Pi * (15-h) - 1413 \\ f'(x) = -3 * Pi * x (x - 10) \\ Newtonverfahren: \\ x[n+1] = xn - (f(xn)-f'(xn))
```

- n xn
- 0 9.0
- 1 7.6582
- 2 8.0149
- 3 8.0371
- 4 8.0372