Mathemathische Methoden

Housaufzabenblatt 10

1) Harmonische Naherung

$$V(r) = 4 \varepsilon \left(\frac{5}{r} \right)^{2} + \frac{7}{r} \left(\frac{5}{r} \right)^{6} \right)$$

Minimum:

 $V(r) = 4 \varepsilon \left(\frac{12}{r} \right)^{2} + \frac{7}{r} \left(\frac{12}{r} \right)^{6} = 0$
 $V(r) = 4 \varepsilon \left(\frac{12}{r} \right)^{7} + \frac{7}{r} \left(\frac{12}{r} \right)^{7} + \frac{7$

