

### Integralabschätzungen

Zeige

$$\frac{1}{2} < \int_0^1 \frac{dx}{\sqrt{4-x^2+x^3}} < \frac{\pi}{6}, \quad \text{und} \quad \int_0^1 \frac{dx}{\sqrt{4-3x+x^3}} < \frac{2}{3}.$$