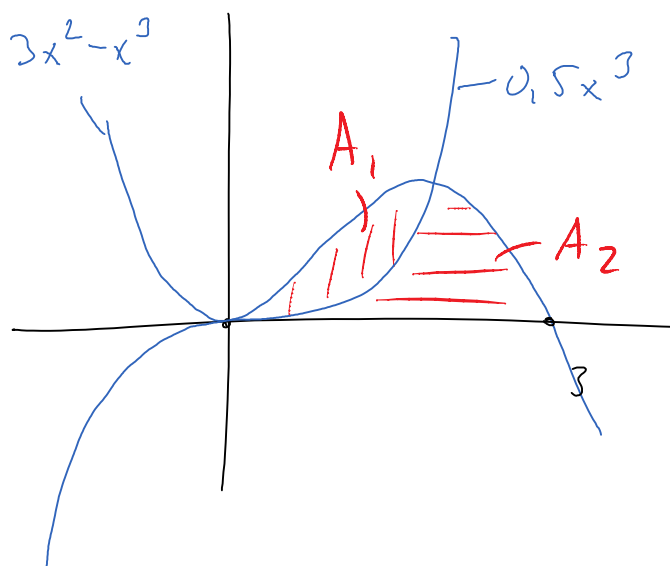


Principskiss



$$3x^2 - x^3 = x^2(3-x)$$

Skärningspunkter : $3x^2 - x^3 = 0,5x^3$

$$\Leftrightarrow$$

$$x^2(3 - 1,5x) = 0$$

$$\Leftrightarrow$$

$$x=0 \text{ el. } x=2$$

$$A_1 = \int_0^2 (3x^2 - x^3 - 0,5x^3) dx = \left[x^3 - \frac{1,5x^4}{4} \right]_0^2 =$$

$$= 8 - 6 = 2 \quad (\text{a.e})$$

$$A_2 = \int_0^3 (3x^2 - x^3) - A_1 = \left[x^3 - \frac{x^4}{4} \right]_0^3 - 2 =$$

$$= 27 - \frac{81}{4} - 2 = \frac{108 - 81 - 8}{4} = \frac{19}{4}$$

$$\frac{A_1}{A_2} = \frac{2}{\frac{19}{4}} = \frac{8}{19}$$