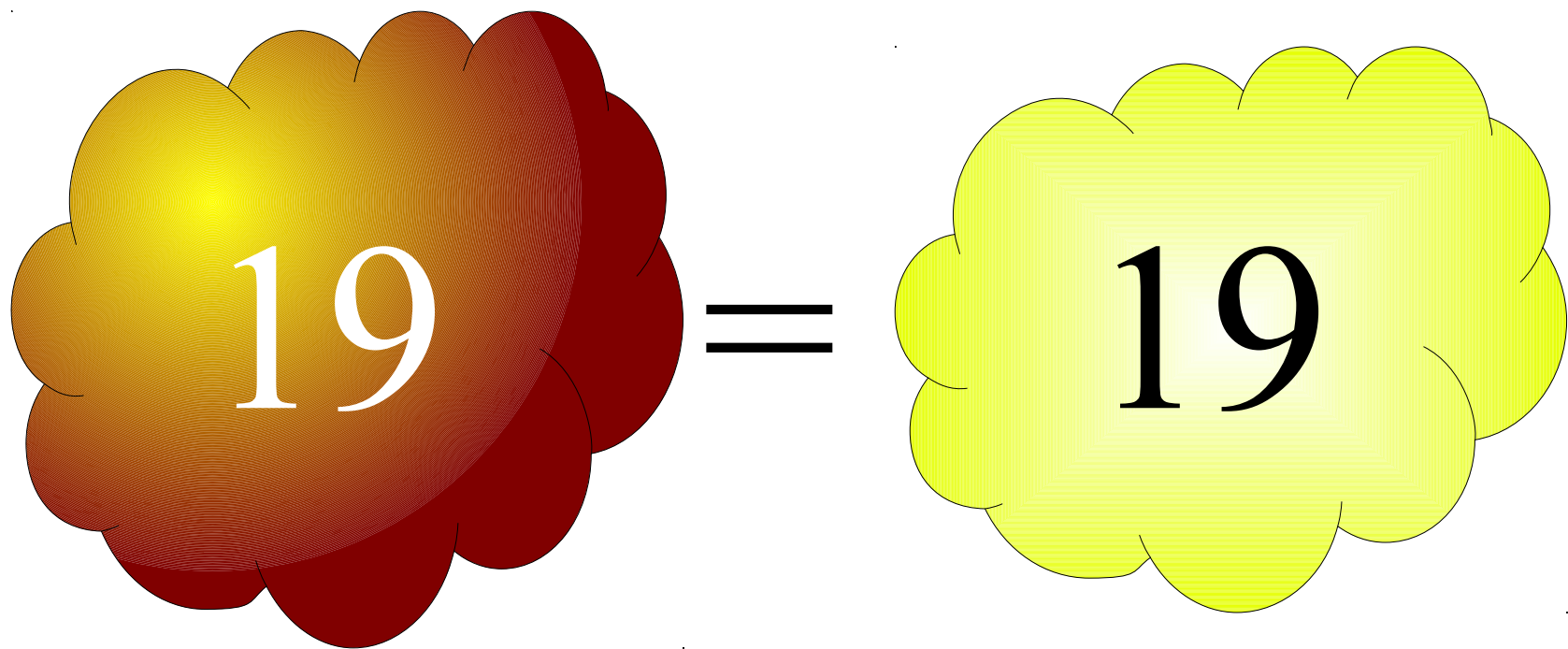


Likninger og ulikheter

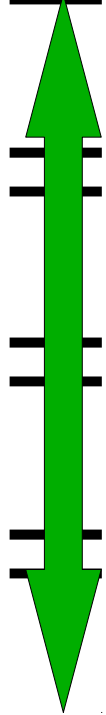
Likning



Et eksempel

$$2 \cdot x + 1 = 6 - 3 \cdot x$$

Vi finner svaret

$$\begin{array}{rcl} 2 \cdot x + 1 & = & 6 - 3 \cdot x \\ 2 \cdot x & = & 5 - 3 \cdot x \\ 2 \cdot x + 3 \cdot x & = & 5 \\ 5 \cdot x & = & 5 \\ x & = & 1 \end{array}$$


Eller?

$$2 \cdot x + 1 = 6 - 3 \cdot x$$

$$2 \cdot x + 1 - 6 = 3 \cdot x$$

$$-5 = -3 \cdot x - 2 \cdot x$$

$$-5 = -5 \cdot x$$

$$x = 1$$

Eller?

$$2 \cdot x + 1 = 6 - 3 \cdot x$$

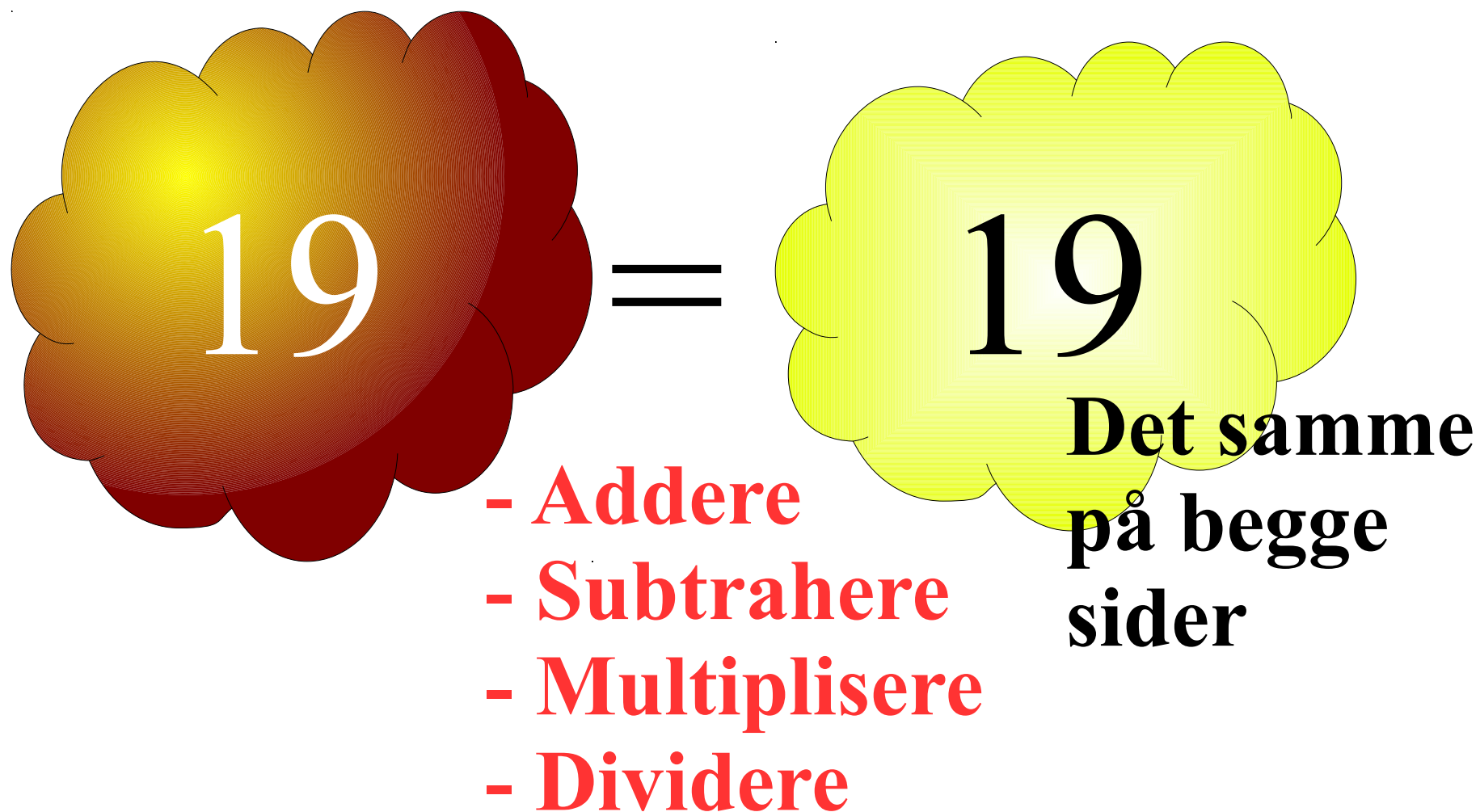
$$2 \cdot x + 3 \cdot x = 6 - 1$$

$$5 \cdot x = 5$$

$$x = \frac{5}{5}$$

$$x = 1$$

Teknikker



Oppgave

$$2(x+1)-1=9-(8-2x)$$

Alle reelle tall

$$x \in \mathbb{R}$$

Oppgave

$$4 - x = 2x - 3(x + 1)$$

Den tomme mengde

$$x \in \emptyset$$

$$L = \emptyset$$

Oppgave

$$x^2 = 9$$

Oppgave

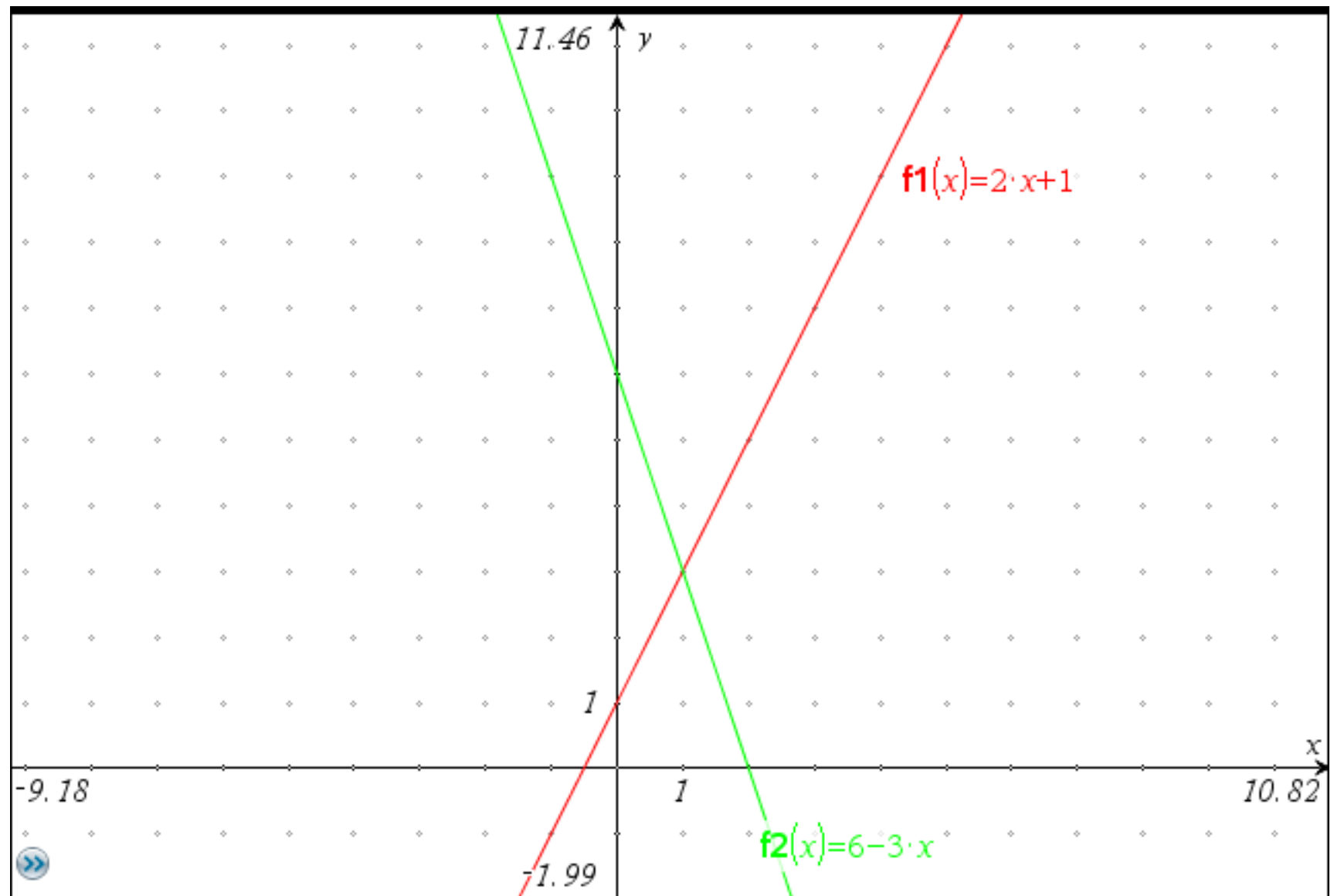
$$x^2 = 9$$

$$x = \pm\sqrt{9}$$

$$x = \pm 3$$

$$x = 3 \quad \vee \quad x = -3$$

Eller?



Vi ser på film

<http://ndla.no/nb/node/3657/menu764>

http://www.youtube.com/watch?v=fBUxXzSrt_s