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### Opgave 008

$$S = \frac{1}{2} a t^2 + v t + S_0$$

$$0 = \frac{1}{2} a t^2 + v t + S_0 - S \quad | \text{ Ryk } S \text{ til højre}$$

koefficienter

$$a = \frac{1}{2} a$$

$$b = v$$

$$c = S_0 - S$$

$$D = v^2 - 4 \left( \frac{1}{2} a \right) (S_0 - S)$$

$$t_{1,2} = \frac{-v \pm \sqrt{v^2 - 4 \left( \frac{1}{2} a \right) (S_0 - S)}}{2 \cdot \frac{1}{2} a}$$

$$= \frac{-v \pm \sqrt{v^2 - 4 \left( \frac{1}{2} a \right) (S_0 - S)}}{a}$$

| Simplificer