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**Gravitational acceleration in Germany**

$$9,81 \frac{m}{s^2}$$

***pq* formula**

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q}$$

**Quadratic formula**

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

**Catalan numbers**

$$C_n = \frac{1}{n+1} \binom{2n}{n} = \frac{(2n)!}{(n+1)!n!}$$

**Definition of a factorial**

$$n! = \prod_{i=1}^n i$$

**Set of all odd natural numbers**

$$\{x \mid x \in \mathbb{N}, \text{odd}(x)\}$$

**Elimination  $\neg \exists x$**

$$\neg \exists x.p(x) \Leftrightarrow \forall x.\neg p(x)$$

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