Algebra  
   
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Algebra is a branch of mathematics that deals with abstract systems, known as algebraic structures,  
and the manipulation of expressions within those systems. It is a generalization of arithmetic that  
introduces variables and algebraic operations other than the standard arithmetic operations, such as  
addition and multiplication. Elementary algebra is the main form of algebra taught in schools. It  
examines mathematical statements using variables for unspecified values and seeks t

## Wikipedia Excerpt: Deep learning

In machine learning, deep learning focuses on utilizing multilayered neural networks to perform tasks such as classification, regression, and representation learning. The field takes inspiration from biological neuroscience and is centered around stacking artificial neurons into layers and "training" them to process data. The adjective "deep" refers to the use of multiple layers (ranging from three to several hundred or thousands) in the network. Methods used can be supervised, semi-supervised or unsupervised.  
Some common deep learning network architectures include fully connected networks, deep belief networks, recurrent neural networks, convolutional neural networks, generative adversarial networks, transformers, and neural radiance fields. These architectures have been applied to fields including computer vision, speech recognition, natural language processing, machine translation, bioinformatics, drug design, medical image analysis, climate science, material inspection and board ga