

**The MathWord**

compiled by Scott C Bourgeois  
The Crossword runs semi-regularly with the answer available at [www.gateway.ualberta.ca](http://www.gateway.ualberta.ca)

**Across**

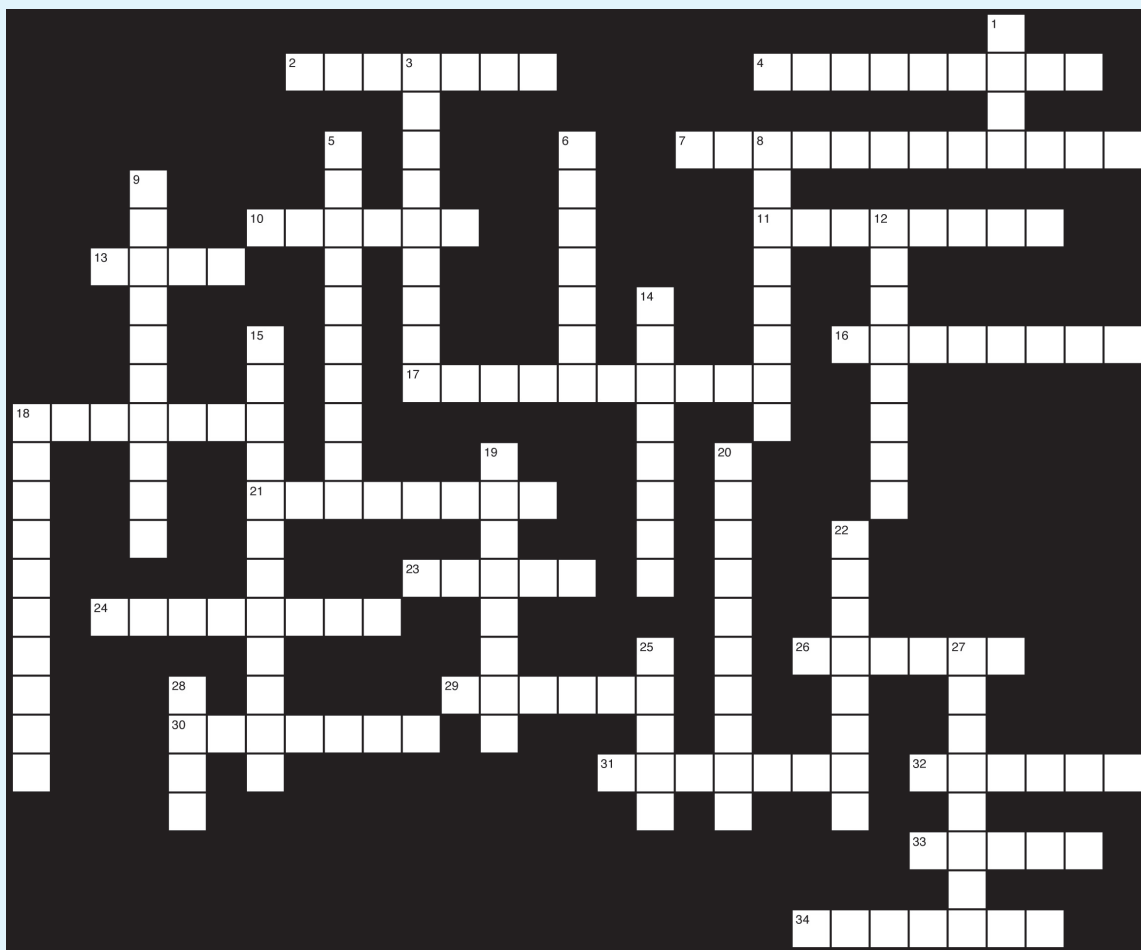
- 2. The force that pulls masses towards each other.
- 4. A line or curve that the graph or a relation approaches more and more closely the further the graph is followed.
- 7. The study of triangles, with emphasis on calculations dealing with the length of sides and the measures of angles.
- 10. Any quantity that can be measured with a single real number, such as temperature or length.
- 11. The branch of mathematics dealing with limits, derivatives and power series.
- 13. A quadrilateral with two pairs of adjacent sides that are congruent.
- 16. The study of two- and three-dimensional figures.
- 17. A line that passes through at least two points of a curve. (Two words.)
- 18. The symbol used to indicate square roots.
- 21. All positive and negative whole numbers, including zero.
- 23. The word for a set of points that form a geometric figure or graph.
- 24. The result of dividing two numbers or expressions.
- 26. In reference to a geometric figure with no indentations.
- 29. The set of values of the independent variable for which a function or relation is defined.
- 30. The eight regions into which three dimensional space is divided by the x-, y- and z-axes.
- 31. The mathematics of working with variables.

- 32. A number that can be written as 1 followed by a hundred zeros.
- 33. A curve shaped like a spring.
- 34. A figure that is self-similar; no matter how far away you zoom in on the figure, the portion you look at still looks like the original figure.

**Down**

- 1. A three dimensional figure with a single base tapering to an apex.
- 3. Quantities that may change or take on different values.
- 5. A horizontal shift for a periodic function.
- 6. A geometric figure with nine sides.
- 8. The center of a polygon's inscribed circle.
- 9. Prime numbers that are two apart from each other, such as 3 and 5. (Two words.)
- 12. The curve naturally formed by a slack rope hanging between two fixed points.
- 14. A transformation in which a figure grows larger.
- 15. How many times a particular number is a zero for a given polynomial.
- 18. A 90° angle. (two words)
- 19. 1/2 is an example of this.
- 20. A structure used to find the prime factorization of a positive integer. (Two words.)
- 22. A polynomial with two terms which are not like terms.
- 25. Two rays that share a common midpoint, usually measured in degrees or radians.
- 27. The 3 in the expression 4<sup>3</sup>.
- 28. The physics term for the amount of energy required to move an object over a given path subject to a given force.

# CROSSWORD



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