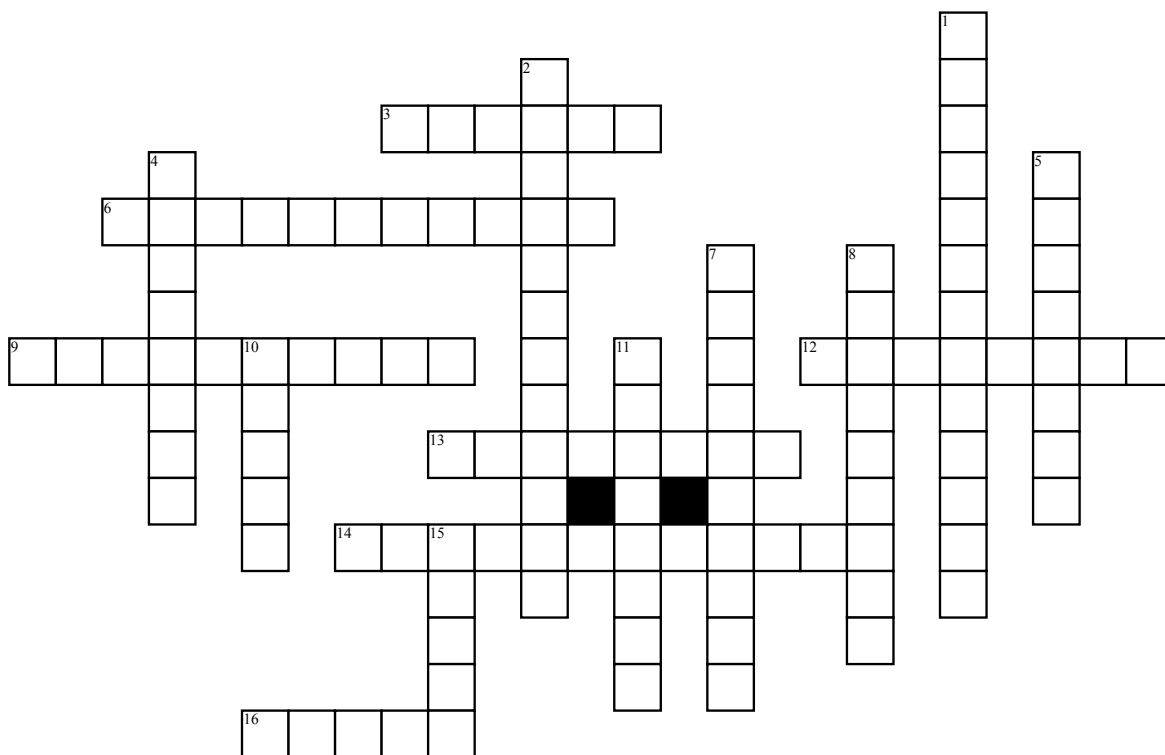# Crossword Puzzle: Linear Relations, Linear Equations, Linear Systems, Trigonometry Polynomials and Quadratics

Across

3. It refers to the maximum or minimum point of a parabola

6. The 8 in 8xy is a _____.

9. It is a point where a line crosses the y-axis of a graph and it is also the point where x = 0.

12. The x and y in 8x + 2y + 10 = 0 is referred to as _____.

13. If the equations have the same slope and the same y-intercepts, they have _____ solutions

14. The $\sqrt{(b^2-4ac)}$ in x=$(-b\pm\sqrt{(b^2-4ac)})/2a$ is called a _____. This can be positive, negative or zero and it determines the number of solutions in a quadratic equation.

16. The space within two lines or more planes deviating from a common point is called an _____.

Down

1. A triangle with an interior angle of exactly 90□.

2. A term that is written in the most acceptable way.

4. This has a fixed value and it has no variables.

5. The axis of symmetry divides the _____ into 2 equal sides.

7. It is the longest side of a right triangle. It is also the opposite of the right triangle.

8. ax²+ bx + c = 0 is the standard form of _____ ¬equation where, a is not equal to zero, and a, b, c are real numbers.

10. It refers to the solutions to a quadratic equation _____.

11. This term refers to a polynomial that has one term.

15. A linear equation which is commonly written as: y = mx + b, where m is the ¬¬¬¬_____ of the line and b is the y-intercept.