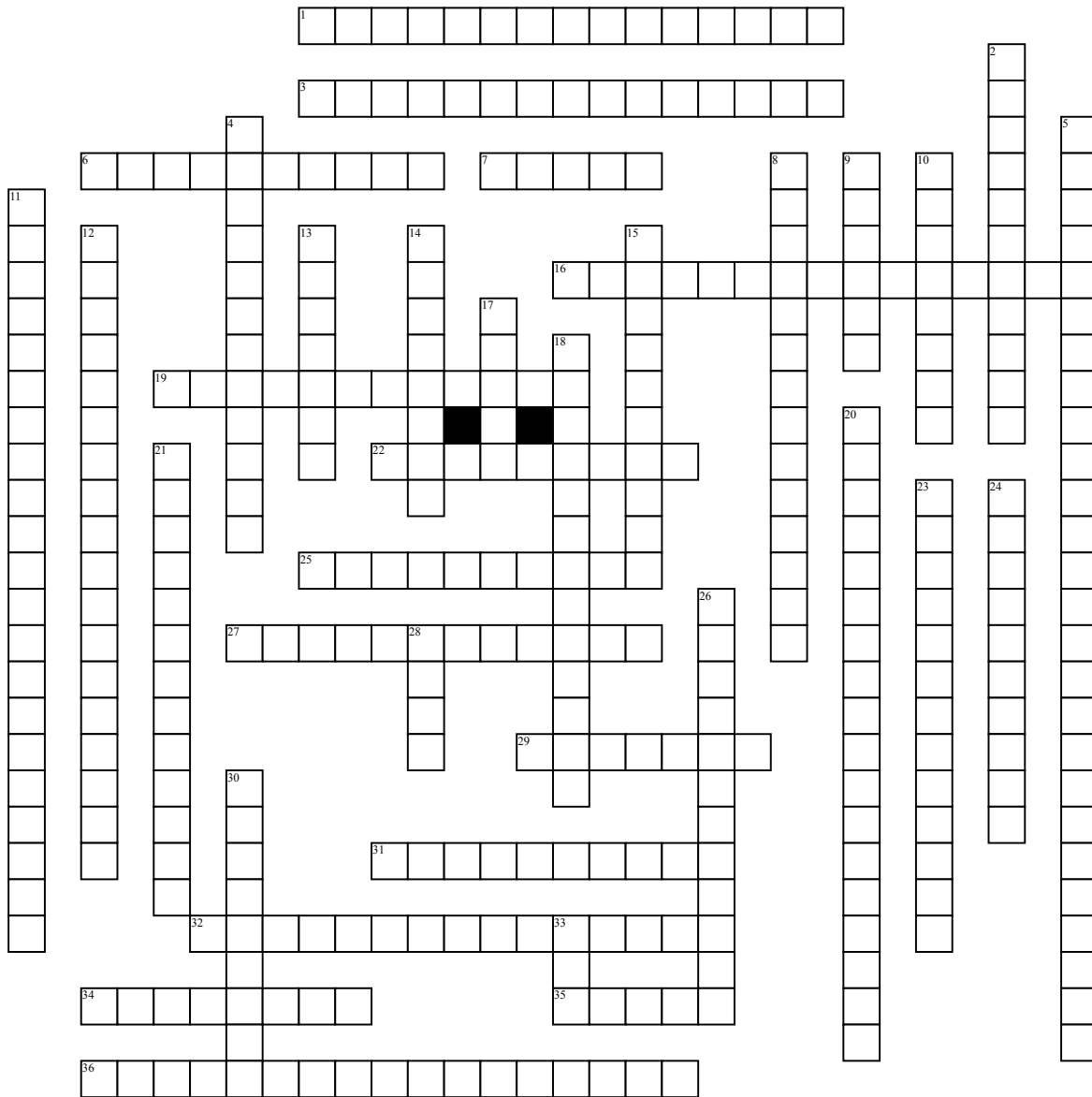


# Geometry Crossword Puzzle



**Across**

- 1.  $D = \text{Square root}(X_2 - X_1)^2 + (Y_2 - Y_1)^2$
- 3. Angles that have the same measure
- 6.  $x = 90$
- 7. The horizontal line on the coordinate plane
- 16. A plane formed by the intersection of a horizontal number line with a vertical number line.
- 19. The set of points the figures have in common
- 22. An accepted statement of fact
- 25. A line of infinite extent whose points correspond to the real numbers according to their distance in a positive or negative direction from a point
- 27. A group of three or more points that do not fall on the same straight line
- 29. A geometric tool used to draw circle and parts of circles called arcs
- 31. The result of subtracting one number from another
- 32.  $M = (X_1 + X_2 / 2, Y_1 + Y_2 / 2)$

- 34. A straight line segment that passes through the center of the circle and whose endpoints lie on the circle.
  - 35. The vertical line on the coordinate plane
  - 36. Segments that have the same length
- Down**
- 2.  $90 < x < 180$
  - 4. A ruler with no marking on it
  - 5. If three points A, B, and C are collinear and B is between A and C, then  $AB + BC = AC$
  - 8. an example that shows a conjecture is incorrect
  - 9. A point where two or more curves, lines, or edges meet
  - 10. The point that is halfway between the endpoints of the line segment
  - 11. A line, segment, or ray that is perpendicular to the segment at its midpoint
  - 12. Reasoning based on patterns you observe
  - 13. A statement that has been proven

- 14. A line or curve that bisects or divides a line segment, angle, or other figure into two equal parts
- 15. A conclusion you reach using inductive reasoning
- 17. An exact position or location on a plane surface
- 18. Equidistant from the sides of the angle when measured along a segment perpendicular to the sides of the angle
- 20. Two lines that intersect to form right angles
- 21. Non-negative value;  $|x|$
- 23.  $x = 180$
- 24.  $0 < x < 90$
- 26. Two rays that share a common endpoint and any other points on each ray
- 28. A long, thin mark that connects points on a coordinate plane
- 30. Points that lie on the same line
- 33. A line segment that continues on endlessly in one direction and has an endpoint