

Worksheet - Analytic Geometry

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. The line through the points (4, 3) and (6, 0) intersects the line through (0, 0) and (-1, 5). Find the angle of intersection.
 - a. 84 degrees, 94 degrees
 - b. 85 degrees, 95 degrees
 - c. 87 degrees, 92 degrees
 - d. 80 degrees, 90 degrees
2. What is the x-intercept of the line passing thru (1, 4) and (4, 1).
 - a. 4.5
 - b. 5
 - c. 6
 - d. 4
3. Find the equation of the line determined by the points (1, 5) and (4, 1).
 - a. $y + 4x = 9$
 - b. $4y - 3x = 19$
 - c. $3y + 4x = 19$
 - d. $4x + 3y = 15$
4. A line passes thru (1, -3) and (-4, 2). Write the equation of the line in slope intercept form.
 - a. $y - 4 = x$
 - b. $y = -2 - x$
 - c. $y = x - 4$
 - d. $y - 2 = x$
5. Given the slope of -3 and the y-intercept of 4, determine the equation of the line.
 - a. $y = 3x + 4$
 - b. $y = 3x - 4$
 - c. $y = -3x + 4$
 - d. $y = -3x - 4$
6. Find the distance of the line $3x + 4y = 5$ from the origin.
 - a. 4
 - b. 2
 - c. 1
 - d. 3
7. Find the equation of a line thru (4, 1) perpendicular to the line $2x - 3y + 4 = 0$.
 - a. $4x + 5y + 11 = 0$
 - b. $6x - 3y - 21 = 0$
 - c. $3x + 2y - 14 = 0$
 - d. $2x - 3y + 5 = 0$
8. Find the area enclosed by the line $-x + y = 2$, the x and the y-axis.
 - a. 4
 - b. 2
 - c. 3
 - d. e
9. Find the equation of the bisector of the pair of acute angles formed by the lines $4x + 2y = 9$ and $2x - y = 8$.
 - a. $y - 25 = 0$
 - b. $8x + y - 25 = 0$
 - c. $8x + 25 = 0$
 - d. $8x - 25 = 0$
10. Find the equation of the line that bisects the acute angle between the lines $x - y - 1 = 0$ and $7x + y - 7 = 0$.
 - a. $3x - y = 3$
 - b. $2x + 3y = 2$
 - c. $3x - y = 3$
 - d. $x - 3y = 1$
11. Find the equation of the line through (13, 5) which makes an angle of 45 degrees with the line $2x + y = 12$.
 - a. $x + 3y = 6$
 - b. $3x - y = 34$
 - c. $3x + y = 8$
 - d. $x + 3y = 4$
12. Find the equation of a line thru point A (7, 0) parallel to the line $9x + y - 3 = 0$.
 - a. $9x + y - 4 = 0$
 - b. $9x + y - 48 = 0$
 - c. $9x + y - 40 = 0$
 - d. $9x + y - 63 = 0$
13. Find the equation of the line thru point (7, 0) perpendicular to the line $9x + y - 3 = 0$.
 - a. $x + 9y - 7 = 0$
 - b. $9x + y - 7 = 0$
 - c. $x - 9y - 7 = 0$
 - d. $9x + y + 7 = 0$
14. Find the area bounded by the line $x - 2y + 10 = 0$, x-axis, y-axis, and $x = 10$.
 - a. 75
 - b. 50
 - c. 100
 - d. 25

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Methods of Solving Solid Geometry Problems Ellina Grigorieva, 2025-09-26 This textbook completes the author's series of books on solving complex math problems and is aimed at developing readers geometric thinking to master the skills of solving solid geometry problems Written in a friendly manner it discusses many important and sometimes overlooked topics about polyhedra such as their cross sections unfolding inscribed and circumscribed solids and figures of revolution Over 350 unique problems with detailed solutions and hints are presented throughout the text many of which are solved in multiple ways to aid readers with different mathematical backgrounds If the problem is of historical significance or can be related to a similar problem solved in ancient times its original solution historical information about its creation and origin of its methods are also included Various applications of stereometry are also explored including those to chemistry molecular structures and crystallography For example using Euler's formula for a convex polyhedron the reader will learn how to explain the structure of various chemical compounds such as how to predict the shape of the truncated icosahedron for the C₆₀ fullerene molecule the most powerful antioxidant known today and to prove why the surface of any fullerene C_{2n} consists of $n/10$ regular hexagons and always only 12 regular pentagons Demonstrating the connections between different areas of mathematics Methods of Solving Solid Geometry Problems will be of interest to students who want to excel in math competitions and to those who aspire for greater mastery in linear algebra analytic geometry calculus and more advanced topics It can also be used by teachers to stimulate abstract thinking and bring out the originality of their students

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