

Sample Problems for MATH 100 Readiness Test

I. Substitution in algebraic expressions

1. Evaluate $\frac{a-b}{a}$ if $a = 3$ and $b = -5$.
2. If $y = 2x^2 - 4x - 5$, what is the value of y when $x = -3$?
3. If $a = -2$, find the value of $3(a - 2) - 2(a + 1)$.
4. Evaluate $\frac{xy - y^2}{2x^2}$ if $x = -2$ and $y = 3$.

II. Addition, subtraction, multiplication, and division of monomials and polynomials

For problems 5-15, perform the indicated operation and simplify your answer.

5. $13a - 15b - a + 2b$
6. $(2x - 1)(4x + 3)$
7. $(2m + 3)^2$
8. $(x^2 - 3x + 2) - (3x^2 - 5x - 1)$
9. $\frac{6a}{3a}$
10. $4x(x + 2)$
11. $5x - 3y - (x + 4y)$
12. $\frac{2y^2 + 8xy}{2y}$
13. $(x + 2)(x^2 - 3x + 1)$
14. $\frac{18b^4}{6b^3}$
15. $(3y - 5x)^2$
16. Find the result if $3x^2 + 2x - 1$ is subtracted from $5x^2 + 2x + 3$.
17. $\frac{16x^2y^3}{2xy^3}$
18. $4xy^2(x^2 + 2y + 3)$

III. Simplification of algebraic expressions containing multiplication and addition of polynomials.

For problems 19-23, simplify the given expression.

19. $5(a + 2) + 2(3 - a)$
20. $6(x - 2) - (2x + 3)$
21. $3x(2y - 4) - 2y(2x + 3)$
22. $2y[y - (3 + 2y)]$
23. $(3 + m)m + m^2$

IV. Simplification of terms containing integer exponents

For problems 24-29, simplify the given expression.

24. $\frac{a^6}{a^3}$
25. $3x^2y(2xy^4)$
26. $(2ab^2)^3$
27. $(-3x^4)^2$
28. $\frac{x^{-2}}{x^{-3}}$
29. $\left(\frac{3x}{4y}\right)^2$

V. Simplification of expressions containing square roots

For problems 30-34, simplify the given expression.

Sample Problems For Math 100 Readiness Test

Michael Brown



Sample Problems For Math 100 Readiness Test:

Sample Problems For Math 100 Readiness Test Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Sample Problems For Math 100 Readiness Test**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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