Montclair State University (MSU), Department of Mathematical Sciences

Sample Problems for MATH 100 Readiness Test

I. **Substitution in algebraic expressions**

   1. Evaluate $\dfrac{a-b}{a}$ 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 $\dfrac{xy - y^2}{2x^2}$ 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. $\dfrac{6a}{3a}$ 10. $4x(x + 2)$

   11. $5x - 3y - (x + 4y)$ 12. $\dfrac{2y^2 + 8xy}{2y}$ 13. $(x + 2)(x^2 - 3x + 1)$

   14. $\dfrac{18b^4}{6b^3}$ 15. $(3y - 5x)^2$

   16. Find the result if $3x^2 + 2x - 1$ is subtracted from $5x^2 + 2x + 3$.

   17. $\dfrac{16x^2 y^3}{2xy^3}$ 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. $\dfrac{a^6}{a^3}$ 25. $3x^2 y(2xy^4)$ 26. $(2ab^2)^3$

   27. $(-3x^4)^2$ 28. $\dfrac{x^{-2}}{x^{-3}}$ 29. $\left(\dfrac{3x}{4y}\right)^2$

V. **Simplification of expressions containing square roots**

   For problems 30-34, simplify the given expression.

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Xiaolong Qi

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