

Accuplacer College Level Math Study Guide

The following sample questions are similar to the format and content of questions on the Accuplacer College Level Math test. Reviewing these samples will give you a good idea of how the test works and just what mathematical topics you may wish to review before taking the test itself. Our purposes in providing you with this information are to aid your memory and to help you do your best.

I. Factoring and expanding polynomials

Factor the following polynomials:

- $15a^3b^2 - 45a^2b^3 - 60a^2b$
- $7x^3y^3 + 21x^2y^2 - 10x^3y^2 - 30x^2y$
- $6x^4y^4 - 6x^3y^2 + 8xy^2 - 8$
- $2x^2 - 7xy + 6y^2$
- $y^4 + y^2 - 6$
- $7x^3 + 56y^3$
- $81r^4 - 16s^4$
- $(x + y)^2 + 2(x + y) + 1$

Expand the following:

- $(x + 1)(x - 1)(x - 3)$
- $(2x + 3y)^2$
- $(x\sqrt{3} + \sqrt{3})(x\sqrt{6} - \sqrt{6})$
- $(x^2 - 2x + 3)^2$
- $(x + 1)^2$
- $(x - 1)^6$

II. Simplification of Rational Algebraic Expressions

Simplify the following. Assume all variables are larger than zero.

- $3^2 + 5 - \sqrt{4} + 4^0$
- $9 + 3 \cdot 5 - 8 + 2 + 27$
- $\sqrt{\frac{81}{x^4}}$
- $2\sqrt{18} - 5\sqrt{32} + 7\sqrt{162}$
- $\frac{6x - 18}{3x^2 + 2x - 8} \cdot \frac{12x - 16}{4x - 12}$

III. Solving Equations

A. Solving Linear Equations

- $3 - 2(x - 1) = x - 10$
- $\frac{x}{2} - \frac{x}{7} = 1$
- $y(y + 2) = y^2 - 6$
- $2[x - (1 - 3x)] = 3(x + 1)$

B. Solving Quadratic & Polynomial Equations

- $\left(y - \frac{8}{3}\right)\left(y + \frac{2}{3}\right) = 0$
- $2x^2 - 4x^2 - 30x = 0$
- $27x^3 = 1$
- $(x - 3)(x + 6) = 9x + 22$
- $t^2 + t + 1 = 0$
- $3x^2 = 24$
- $(x + 1)^2 + x^2 = 25$
- $5y^2 - y = 1$

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