

Tompkins Cortland Community College – Mathematics Placement Program

MATH 132 (College Algebra & Trigonometry) Qualifying Test - Practice Problems Answer Sheet

Don't look at this sheet till you've worked all the test problems to the best of your ability. Then score yourself using the answers below.

Next to each answer you'll find the concept(s) that the question tested. To prepare for the real pretest, consult any textbook or tutor for that topic, and work some practice problems to bring your abilities up to snuff.

ANSWERS

1. $5x^3 + 12x^2 - 16x - 5$

2. $(2x + 3)(x - 5)$

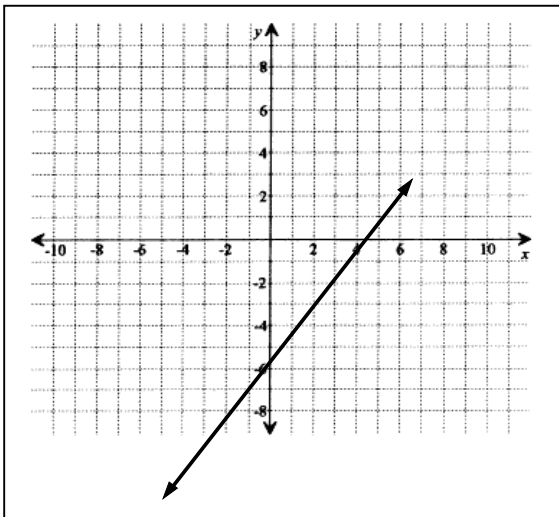
3. $x = -1$

4. $\frac{-2z^4}{3x^3y^3}$

5. $4x^2 - 28x + 49$

6. -9

7.



8. $x = -\frac{1}{3}, x = -5$

9. $x \geq -4$

10. $y = \frac{2}{7}x - \frac{30}{7}$

11. $x = -\frac{3}{4}, x = \frac{9}{4}$

12. $x = 4, y = -1$ or $(4, -1)$

CONCEPTS

Add/subtraction of polynomials

Factoring polynomials

Solving fractional equations

Simplifying exponential expressions

Multiplication of binomials

Function notation

Graphing equation of a line

Solving quadratic equations

Solving linear inequalities

Finding the equation of a line

Solving absolute value equations

Systems of equations