

PART II, DUE WHEN YOU TAKE THE TEST

Topics

- graphing systems of linear inequalities
- exponents
- scientific notation
- adding, subtracting, multiplying, and dividing polynomials and rational expressions
- factoring
- zero product rule
- reducing
- long division
- complex fractions
- equations involving rational expressions
- rational exponents
- simplifying radicals
- rationalizing the denominator
- adding, subtracting, multiplying, and dividing radical expressions
- complex numbers
- completing the square
- quadratic formula
- quadratic equations in disguise
- graphing parabolas
- graphing exponential functions using the point plot method
- compound interest (formula provided)
- logarithms
- circles
- distance between two points

Memorize

- properties of exponents
- $(a + b)^2$ and $(a - b)(a + b)$
- Pythagorean Theorem
- distance = rate \times time
- how to complete the square
- quadratic formula
- finding the vertex of a parabola
- $(x - a)^2 + (y - b)^2 = r^2$ (equation of a circle centered at (a,b) with radius r)
- distance formula

Final Extra Credit Review Problems

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(15 points)

4.6: 1,14

A. Write the properties of exponents

5.1: 3,4,9,14,15,18,20,21,27,34,44,52,55,59,63,66,86

5.2: 22,23,45

5.3: 3,30,33,38

5.4: 20,27

B. Find the products $(x + a)^2$, $(x - a)^2$, and $(x - a)(x + a)$.

5.5: 6,11,30,56

5.6: 3,12,23

5.8: 2,7,19,30,44

6.1: 9,18,28,38,52

6.2: 30,31

6.3: 9,16,25

6.4: 9,20,29,30

6.5: 12,25

6.6: 1,20,21,32

7.1: 10,28,35,38,46,51,59,66,71,78

7.2: 11,16

7.3: 4,21,48,66

7.4: 14,21,35

7.5: 3,10,18,21,29,39,44

7.7: 3,5

8.1: 24,25,31

8.2: 4,17,34

8.4: 17,22

8.5: 3,6

9.1: 11,13,26ab

C. Find e using your calculator.

D. What is e rounded to the nearest tens place?

9.3: 1,8,13,23,47,49,52,54,61,64

10.1: 1,6,17,27,33,34