***Flashcard Project***

General: What is an algebra two flashcard? An algebra two flashcard is an index card that has a question on one side and an answer to that question on the other side. The answer is an **explanation** with an **example**. You will make algebra two flashcards for chapters 1,2,3 and 5.

Instructions: That sounds like a lot of work… What do I have to do? 1.) **Complete the table** below (due ***Thursday/Friday, November 15,16***). This is like a rough draft. 2.) **Make flashcards**. These should be index cards. I recommend the 3” by 5” ones… they have enough space to fit the explanation and the example. (due ***Monday/Tuesday, November 26,27***).

Grading: How will my work be assessed?

Rough draft: (complete, on time) = 100 points.

Final Flashcard: Each card 5 points (Explanation(2), Example (2), Neatness(1) \*46 cards = 200+30 bonus.

Bonuses: Flashcards held together with a flashcard ring = 20 points.

Total points possible: 350/300.

Other: Each flashcard will probably take five to ten minutes to prepare and make. That means that this is a ten to twenty hour project. That means that you should spend at least twenty minutes a day everyday on this. If you don’t space it out, you will be stressed as the deadline approaches. If you need more space for the rough draft, then use a separate sheet of paper. I will post a digital version to the website as well as email this to you. **Do these well, you may be able to use them on your final exam…**

|  |  |  |
| --- | --- | --- |
| Question…side 1 | Page (the page in your book to find the answer) | Answer (Explanation, Example)…side 2 |
| What is order of operations? |  |  |
| What is absolute value? |  |  |
| How do you solve an absolute value equation? |  |  |
| How do you solve an equation? |  |  |
| What does the solution of a equation mean? |  |  |
| How do you add fractions with unlike denominators? |  |  |
| How do you multiply fractions? |  |  |
| Describe the various types of numbers and give an example of each. |  |  |
| How do you graph linear inequalities on a number line? |  |  |
| What is an “and” inequality? |  |  |
| What is an “or” inequality? |  |  |
| How do you graph an equation in y=mx+b form? |  |  |
| What is standard form of a linear equation? |  |  |
| Why do we evaluate functions at x=0 to find the y-intercept? |  |  |
| What is a system of equations? |  |  |
| What does the solution to a system of equations represent? |  |  |
| What is a consistent and dependent system of equations? |  |  |
| What is a consistent and independent system of equations? |  |  |
| What is an inconsistent system of equations? |  |  |
| How do you graph a system linear inequalities? |  |  |
| What is a monomial? |  |  |
| What is a polynomial? |  |  |
| What are the rules for simplifying a monomial? |  |  |
| What are like-terms when we are discussing polynomials? |  |  |
| How do you multiply a binomial with a binomial? |  |  |
| How do you multiply a binomial with a trinomial? |  |  |
| What are the steps for long division of polynomials? Give an example. |  |  |
| What are the steps for synthetic division of polynomials? Give an example. |  |  |
| What is a factor? |  |  |
| What is the greatest common multiple? |  |  |
| Give an example of factoring by grouping. |  |  |
| What is a difference of squares? |  |  |
| What is a difference of cubes? |  |  |
| What is a sum of cubes? |  |  |
| What is a radical? |  |  |
| What is an index? |  |  |
| How do you simplify radicals? |  |  |
| How do you simplify sums of radicals? |  |  |
| What is a rational exponent? |  |  |
| How do you convert a rational exponent to a radical? |  |  |
| What is a conjugate? |  |  |
| What is a conjugate used for? |  |  |
| What is an imaginary number? |  |  |
| What is a complex number? |  |  |