11th Review

Part I List the elements of the given set as:

1. Natural numbers
2. Integers
3. Rational Numbers
4. Irrational Numbers

Part II Place the appropriate inequality symbol < or >

1.

2.

3.

Part III Write each number in scientific notation

1. 0.0000228
2. 34,700,000

Part IV Evaluate the following absolute value

Part V find the distance for the following integers

Part VI Simplify Each exponent show all steps

1. \*

Part VII Simplify each root show all steps

Part VIII Rationalize each Square root show all steps

Part IX **Find the degree of each Polynomial**, **Write them in Standard form** , **find the leading coefficient**

Part X add or subtract

1. )
2. )

4 .)

Part XI Multiply each Polynomial

1. (

Part XII Find the difference of two squares

1.

2.

3.

Part XIII Factor the sum or difference of cubes

1.

2.

3.

Part XIV Factor each trinomial by grouping



Part XV factor the trinomial

1.



XVI Simplify each expression Show all steps

Part XVII Multiply or divide each rational expression show all steps



Part XVIII Add or subtract each rational expression



Part XIX Find the distance and midpoint between the points ( show all steps and write in simplest form

1. 2.

3. 4..

Story Problem

A bird watcher uses a grid to photograph and record the locations of birds feeding on the ground . The grid is made of fishing net with strands tat are 1 foot apart. In the grid point C has a coordinate of (1,7) and point D has a coordinate of (9,1). How far apart are the birds at these two points ?