

Math 215 - Homework 3

Due Friday, September 28

1. Give a definition (in set builder notation) of the set of natural numbers that can be written as the sum of three squares of natural numbers.
2. Show $(A - B) \cap (A - C) = A - (B \cup C)$.
3. Show $A - B = \emptyset$ if and only if $A \subseteq B$.
4. List the elements of the set $\mathcal{P}(\{1, \{1, 2\}\})$.