

WHAT TO KNOW FOR QUIZZES AND EXAMS

DEFINITIONS

- (1) Rational number
- (2) Contrapositive
- (3) Converse
- (4) Irrational number
- (5) minimum / maximum
- (6) Upper bound / lower bound
- (7) Bounded above / bounded below
- (8) Supremum

AXIOMS/THEOREMS

- (1) Well-ordering axiom
- (2) Completeness axiom
- (3) Archimedean principle
- (4) Density of rational numbers

KEY SKILLS

- (1) Proving “if-then” statements, “for every” statements, “there exists” statements, “is unique” statements
- (2) Proofs by contradiction
- (3) Finding the negation of a statement
- (4) Finding the contrapositive of a statement
- (5) Using examples to prove / disprove statements
- (6) Proving that a number is the supremum of a set