Contents

Chapter 1

1

(1.5)

$$OrderTrichotomy(<, S) := \forall_{x,y \in S}(x < y \veebar x = y \veebar y < x)$$

$$OrderTransitivity(<, S) := \forall_{x,y,z \in S}((x < y \wedge y < z) \implies x < z)$$

$$Order(<, S) := OrderTrichotomy(<, S) \wedge OrderTransitivity(<, S)$$

(1.7)

$$BoundedAbove(E, S, <) := Order(<, S) \wedge E \subset S \wedge \exists_{b \in S} \forall_{x \in E}(x \leq b)$$

$$BoundedBelow(E, S, <) := Order(<, S) \wedge E \subset S \wedge \exists_{b \in S} \forall_{x \in E}(b \leq x)$$

Chapter 2

First Chapter

1. First
    1.1. Second
    1.2. Third
2. Fourth

This will be an empty chapter and I will put some text here

$$\sum_{i=0}^{\infty} a_i x^i \tag{2.1}$$

The equation 2.1 shows a sum that is divergent. This formula will later be used in the page **??**.
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