

APPENDIXES

APPENDIX 1 Axioms for the Real Numbers and the Positive Integers

2. This proof is similar to the proof of Theorem 2, that the additive inverse of each real number is unique. In fact, we can just mimic that proof, changing addition to multiplication and 0 to 1 throughout. Let x be a nonzero real number. Suppose that y and z are both multiplicative inverses of x . Then

$$\begin{aligned} y &= 1 \cdot y && \text{(by the multiplicative identity law)} \\ &= (z \cdot x) \cdot y && \text{(because } z \text{ is a multiplicative inverse of } x\text{)} \\ &= z \cdot (x \cdot y) && \text{(by the associative law for multiplication)} \\ &= z \cdot 1 && \text{(because } y \text{ is a multiplicative inverse of } x\text{)} \\ &= z && \text{(by the multiplicative identity law).} \end{aligned}$$

It follows that $y = z$.

4. To show that a number equals $-(x + y)$, the additive inverse of $x + y$, it suffices to show that this number plus $x + y$ equals 0, because Theorem 2 guarantees that additive inverses are unique. We have

$$\begin{aligned} ((-x) + (-y)) + (x + y) &= ((-y) + (-x)) + (x + y) && \text{(by the commutative law)} \\ &= (-y) + ((-x) + (x + y)) && \text{(by the associative law)} \\ &= (-y) + ((-x) + x) + y && \text{(by the associative law)} \\ &= (-y) + (0 + y) && \text{(by the additive inverse law)} \\ &= (-y) + y && \text{(by the additive identity law)} \\ &= 0 && \text{(by the additive inverse law),} \end{aligned}$$

as desired.

6. If $x + z = y + z$, then adding the additive inverse of z to both sides gives another equality. But $(x + z) + (-z) = x + (z + (-z)) = x + 0 = x$ by the associative, inverse, and identity laws, and similarly for the right-hand side. Thus $x = y$.
8. If $x = y$, then by definition $x - y = x + (-y) = x + (-x)$. But this equals 0 by the additive inverse law. Conversely, if $x - y = x + (-y) = 0$, then x is the additive inverse of $-y$ (additive inverses are unique by

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