

25. Let $b := c^{1/m}$. We claim that $b > 1$; for if $b \leq 1$, then Exercise 22(b) implies that $1 < c = b^m \leq b \leq 1$, a contradiction. Therefore Exercise 24(a) implies that $c^{1/n} = b^n > b^n = c^{1/m}$ if and only if $m > n$.
26. Fix $m \in \mathbb{N}$ and use Mathematical Induction to prove that $a^{m+n} = a^m a^n$ and $(a^m)^n = a^{mn}$ for all $n \in \mathbb{N}$. Then, for a given $n \in \mathbb{N}$, prove that the equalities are valid for all $m \in \mathbb{N}$.

Section 2.2

The notion of absolute value of a real number is defined in terms of the basic order properties of $\mathbb{R}$. We have put it in a separate section to give it emphasis. Many students need extra work to become comfortable with manipulations involving absolute values, especially when inequalities are involved.

We have also used this section to give students an early introduction to the notion of the ε -neighborhood of a point. As a preview of the role of ε -neighborhoods, we have recast Theorem 2.1.9 in terms of ε -neighborhoods in Theorem 2.2.8.

Sample Assignment: Exercises 1, 4, 5, 6(a,b), 8(a,b), 9, 12(a,b), 15.

Partial Solutions:

- (a) If $a \geq 0$, then $|a| = a = \sqrt{a^2}$; if $a < 0$, then $|a| = -a = \sqrt{a^2}$.
(b) It suffices to show that $|1/b| = 1/|b|$ for $b \neq 0$ (why?). If $b > 0$, then $1/b > 0$ (why?), so that $|1/b| = 1/b = 1/|b|$. If $b < 0$, then $1/b < 0$, so that $|1/b| = -(1/b) = 1/(-b) = 1/|b|$.
- First show that $ab \geq 0$ if and only if $|ab| = ab$. Then show that $(|a| + |b|)^2 = (a + b)^2$ if and only if $|ab| = ab$.
- If $x \leq y \leq z$, then $|x - y| + |y - z| = (y - x) + (z - y) = z - x = |z - x|$. To establish the converse, show that $y < x$ and $y > z$ are impossible. For example, if $y < x \leq z$, it follows from what we have shown and the given relationship that $|x - y| = 0$, so that $y = x$, a contradiction.
- $|x - a| < \varepsilon \iff -\varepsilon < x - a < \varepsilon \iff a - \varepsilon < x < a + \varepsilon$.
- If $a < x < b$ and $-b < -y < -a$, it follows that $a - b < x - y < b - a$. Since $a - b = -(b - a)$, the argument in 2.2.2(c) gives the conclusion $|x - y| < b - a$. The distance between x and y is less than or equal to $b - a$.
- (a) $|4x - 5| \leq 13 \iff -13 \leq 4x - 5 \leq 13 \iff -8 \leq 4x \leq 18 \iff -2 \leq x \leq 9/2$.
(b) $|x^2 - 1| \leq 3 \iff -3 \leq x^2 - 1 \leq 3 \iff -2 \leq x^2 \leq 4 \iff 0 \leq x^2 \leq 4 \iff -2 \leq x \leq 2$.
- Case 1: $x \geq 2 \Rightarrow (x + 1) + (x - 2) = 2x - 1 = 7$, so $x = 4$.
Case 2: $-1 < x < 2 \Rightarrow (x + 1) + (2 - x) = 3 \neq 7$, so no solution.
Case 3: $x \leq -1 \Rightarrow (-x - 1) + (2 - x) = -2x + 1 = 7$, so $x = -3$.
Combining these cases, we get $x = 4$ or $x = -3$.

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