1.1 Rational & Irrational Numbers

Defining Real Numbers

Student Logbook

1. integers; 0
2. terminates; repeats
3. two; number
4. ratio; integers
5. terminating; repeating
6. rational; irrational
7. real
8. root
9. radical

Your Turn

1. The following answers are samples

   a. $-\frac{12}{2}$, $\frac{18}{3}$, $-\frac{30}{5}$ b. $\frac{2}{10}$, $\frac{3}{15}$, $\frac{4}{20}$

   c. $-\frac{16}{6}$, $\frac{24}{9}$, $-\frac{32}{12}$ d. $\frac{9}{4}$; $\frac{9}{4}$; $\frac{18}{8}$

2. a. 0.375 b. $0.\overline{2}$

   c. 3.5 d. $0.\overline{714285}$

3. 1.222343
4. Sample answer: $\sqrt{7}$, 5.1682032412
5. a. 2.646 b. 5.916

   c. 4.690 d. 3.742

Working with Radicals

Student Logbook

1. 3.14
2. σ
3. radicand
4. 1, 4, 9, 16, 25
5. $\sqrt{a^2} = a$
6. non-negative square root
7. $\sqrt{a \times b}$
8. $5\sqrt{10}$
9. $\frac{\sqrt{a}}{\sqrt{b}}$
10. rationalize; denominator; rational

Your Turn

1. a. 9; 9 b. 625; 25 c. 144; 12
2. 121, 144, 169, 196, 225
3. a. $4\sqrt{10}$ b. $30\sqrt{3}$ c. $-\frac{3}{2}\sqrt{10}$
4. $-96\sqrt{7}$
5. $\frac{7}{6}$
6. a. $\frac{\sqrt{6}}{6}$ b. $\frac{\sqrt{33}}{11}$ c. $\frac{\sqrt{14}}{7}$
7. a. $\frac{15}{6}$ b. $5\sqrt{5}$ c. $\frac{2\sqrt{3}}{3}$
8. $16\sqrt{2}$
9. $2\sqrt{3}$ seconds

The Square Root Function

Student Logbook

1. $\sqrt{x}$
2. Sample answer: The slope formula can be used to show that slopes between plotted consecutive points are not equal.
3. Because for each first coordinate there is one and only one second coordinate
4. interpolate; domain
5. extrapolate; observed
6. non-negative real numbers
7. non-negative real numbers
8. parameter
9. steepness; quadrant

Your Turn

1.

x	0	1.3	2.0	2.7	3.4	4.8	5.2	5.9
$\sqrt{x}$	0	1.14	1.41	1.64	1.84	2.19	2.28	2.43

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