

Course 2 Answer Key

1.1 Rational & Irrational Numbers

Defining Real Numbers

Student Logbook

- integers; 0
- terminates; repeats
- two; number
- ratio; integers
- terminating; repeating
- rational; irrational
- real
- root
- 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. $-\frac{16}{8}, \frac{24}{9}, -\frac{32}{12}$ d. $\frac{9}{4}, \frac{9}{4}, \frac{18}{8}$
 2. a. 0.375 b. 0.2
 c. 3.5 d. 0.714285

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

- 3, 14
- d
- radicand
- 1, 4, 9, 16, 25
- $\sqrt{a^2} = a$
- 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

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

The Square Root Function

Student Logbook

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

Mathematics Course 2 Answer

VM Jensen



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