

# Course 2 Answer Key

## 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.  $-\frac{15}{6}, \frac{24}{8}, -\frac{32}{12}$
  - d.  $\frac{9}{4}, \frac{-9}{-4}, \frac{18}{8}$
2. a. 0.375  
c. 3.5
3. 1.222343
4. Sample answer:  $\sqrt{7}$ , 5.1682032412
5. a. 2.646  
c. 4.690
- b. 5.916  
d. 3.742



### Working with Radicals

#### Student Logbook

1. 3, 14
2. d
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.  $-\frac{1}{2}\sqrt{10}$
4.  $-96\sqrt{7}$
5.  $\frac{7}{5}$
6. a.  $\frac{\sqrt{6}}{2}$     b.  $\frac{\sqrt{33}}{11}$     c.  $\frac{\sqrt{14}}{7}$
7. a.  $\frac{16}{5}$     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

# Course Mathematics Common Core Answer Key

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