

Pg. 2/key concept

**KEY CONCEPT** *For Your Notebook*

**Subsets of the Real Numbers**

The real numbers consist of the rational numbers and the irrational numbers. Two subsets of the rational numbers are the whole numbers (0, 1, 2, 3, ...) and the integers (... -3, -2, -1, 0, 1, 2, 3, ...).

REAL NUMBERS	
<p><b>Rational Numbers</b></p> <p><math>\frac{1}{2}, -\frac{3}{4}, \frac{5}{6}, \dots</math></p> <p><b>Integers</b> ... -2, -1, 0, 1, 2, ...</p> <p><b>Whole Numbers</b> 0, 1, 2, 3, ...</p>	<p><b>Irrational Numbers</b></p> <p><math>\sqrt{2}, \sqrt{3}, \pi, \dots</math></p> <p><math>\sqrt[3]{5}, \sqrt[3]{7}, \dots</math></p> <p><math>e = 2.71828\dots</math></p>

<p><b>Rational Numbers</b></p> <ul style="list-style-type: none"> <li>can be written as quotients of integers.</li> <li>can be written as decimals that terminate or repeat.</li> </ul>	<p><b>Irrational Numbers</b></p> <ul style="list-style-type: none"> <li>cannot be written as quotients of integers.</li> <li>cannot be written as decimals that terminate or repeat.</li> </ul>
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Pg. 55/3 [decide whether the given number is a solution of the equation]

$$|b-1| = 14; -13$$

$$|-13-1| = 14$$

$$|-14| = 14$$

$$14 = 14 \checkmark$$

Pg. 55/4 [decide whether the given number is a solution of the equation]

$$|d+6| = 10; -4$$

$$|-4+6| = 10$$

$$|2| = 10$$

$$2 \neq 10$$

Pg. 55/5 [decide whether the given number is a solution of the equation]

$$|32-6f| = 20; -2$$

$$|32-6(-2)| = 20$$

$$|32-(-12)| = 20$$

$$|32+12| = 20$$

$$|44| = 20$$

$$44 \neq 20$$

Pg. 93/29 [find the x- and y-intercepts of the line with the given equation]

$$-6x + 8y = -36$$

<p><b>x-intercept</b></p> $-6x + 8(0) = -36$ $-6x = -36$ $x = 6$	<p><b>y-intercept</b></p> $-6(0) + 8y = -36$ $8y = -36$ $y = -9/2 \text{ or } -4.5$
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Pg. 145/15 [the variables x and y vary directly. Write an equation that relates x and y, then find x when y=6]

$x = -2, y = -1$ $y = ax$ $-1 = -2a$ $1/2 = a$	$y = 1/2x$ $6 = 1/2x$ $12 = x$
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Pg. 164/31 [solve the system using any algebraic method]

$$4x - 10y = 18$$

$$-2x + 5y = -9$$

$$4x - 10y = 18$$

$$2[-2x + 5y] = -9$$

$$4x - 10y = 18$$

$$\underline{-4x + 10y = -18}$$

0; infinitely many solutions

Pg. 227/20 [use the given matrices to evaluate the expression, if possible. if not possible, state the reason]

$$DE \begin{bmatrix} -1 & 3 & -2 \\ 2 & 0 & -1 \end{bmatrix} \cdot E \begin{bmatrix} 4 & -1 & 3 \\ 6 & -2 & 1 \end{bmatrix}$$

Not possible; both are dimensions of 3 x 2

Pg. 323/15 [solve the equation]

$$(x+2)^2 - 12 = 36$$

# 2nd Semester Algebra 2 Study Guide Answers

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