## **Chapter 10 Review Exercise Answers**

1.	product	2.	discrimi	nant	3.	Pythagorean		4.	denominator
5.	x = -3, 5		6.	$w = \frac{2}{3}, -2$			7.	x = 0, -	<u>4</u> 7
8.	x = 7, -7		9.	x = 0, -6			10.	<i>p</i> = -3,	-60
11.	x = -2, 12		12.	$x = \frac{3}{2}$			13.	$w = \frac{1}{4}$	$, \frac{-5}{2}$
14.	x = -9, 5		15.	<i>y</i> = 5			16.	w = 9,	-9
17.	m = -2, -14		18.	$x = 3, \frac{-3}{2}$			19.	w = 2,	4
20.	$m = \frac{5}{2} , 2$		21.	D = 36; two	o solut	ions	22.	D = 0; o	one solution
23.	D = -47 no solutions		24.	D = 21; two	o solut	ions	25.	x = -2,	-3
26.	$x = 3 \pm \sqrt{3}$		27.	$x = -2 \pm \sqrt{2}$	$\frac{10}{2}$		28.	No solut	tion
29.	$w = 3 \pm \sqrt{10}$		30.	<i>y</i> = 3			31.	No solu	tion
	2								

- **32.**  $x = \frac{-3}{2}$
- **33.** The width is  $4\frac{1}{2}$  yards (or  $\frac{9}{2}$  yards) and the length is 10 yards.
- **33.** The width is 3 feet and the length is 10 feet.
- **35.** The legs of the triangle are 5 meters and 6 meters.
- **36.** The legs of the triangle are 4 feet and 10 feet.
- **37.** The lengths of the sides are 9 feet, 12 feet, and 15 feet.
- **38.** The lengths of the sides are 5 inches, 12 inches, and 13 inches.

- **39.** a) At  $\frac{1}{2}$  second, the baseball is 132 feet above the ground.
  - b) At 1 second, the baseball is 160 feet above the ground.
  - c) At 2 seconds, the baseball is 112 feet above the ground.
- **40.** The baseball hit the ground in 6 seconds.
- **41.**  $x \neq -2, 2$  **42.**  $x \neq 6, -5$  **43.** x = 5, -2 **44.** x = -2 

   **45.** x = -1, 6 **46.** x = 3, -1 **47.** x = 2 (only)
   **48.** x = -3 (only)
- **49.** Miles can tie 9 knots in 20 minutes.
- **50.** It will take Jim's crew 4 days to fill the bin again.
- **51.** Together, Randall and Ke-Shawn can plow the cornfield in 4 hours.
- **52.** It would take Jake 45 minutes to clean a Hilton pool by himself.
- **53.** The right side hose could fill the pool in 6 hours, and the left side hose could fill the pool in 12 hours
- 54. Luigi takes 40 minutes to clean the store, and Mario takes 120 minutes (2 hours) to clean the store.

Please contact your instructor if you find any errors. Thanks!