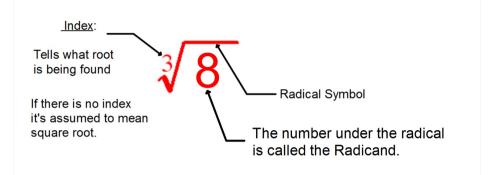
What is each problem asking for?

- 1. $-\sqrt{25}$ The negative Square Root of 25.
- 2. $\pm \sqrt{25}$ Both the positive and negative Square Root of 25.
- √25 The positive Square Root of 25.
 Also known as the Principal Square Root.

Solving Quadratic equations using Square Roots:

- Isolate the term that is being square on one side of the equation
- Sqare root both sides of the equation
- Finish solving for x, if necessary.



The area of a circle is found using the following formula:

$$A = \pi r^2$$

The area of the circle is 480(n²) Find the radius to the nearest hundredth of an inch.

(12.36 in

	1
Number	# of Real Square Roots
Pos	Two → ±
Zero	One → zero itself
Neg	None

Find the solutions to this equation.

$$75 + 3x^{2} = 27$$

$$-75 - 75$$

$$+3x^{2} = -48$$

$$3$$

$$\sqrt{x^{2}} + 16$$

When the book says to find solutions it means find all REAL solutions.

When they write no solution it means NO REAL solution.

No Real Solution

Find all real solutions.

$$13x^{2} + 1 = 118$$

$$13x^{2} = 117$$

$$13x^{2} = 117$$

$$13x^{2} = 17$$

$$13x^{2} = 17$$

$$13x^{2} = 17$$

$$13x^{2} = 17$$

Find all real solutions to each equation using square roots. Simplify irrational answers.

$$108 - 5x^{2} = 8$$

$$-108 - 108$$

$$-5x^{2} = -100$$

$$x^2 + b = 23$$

a. For what values of b will there be 2 real solutions?

b. For what values of b will there be only 1 real solution?

c. For what values of **b** will there be only no real solution?

$$b > 23$$
 $23-b = 186$

Find the EXACT solutions to this equation:

$$16x^{2} - 20 = 61$$

$$+ 20 + 20$$

$$\frac{16x^{2} - 81}{16}$$

$$\sqrt{x^{2}} = \sqrt{\frac{81}{16}}$$

$$x = +9$$

Find the EXACT solutions to this equation:

$$2x^{2} - 21 = 87$$

$$+ 2(+2)$$

$$2x^{2} = 208$$

$$2x^{2} = 87$$

$$2x^{2} = 208$$

$$2x^{2} = 87$$

$$2x^{3} = 87$$

$$2x^{4} = 87$$

$$2x^{5} = 87$$

Find the EXACT solutions to this equation:

$$18x^{2} + 13 = 111$$

$$-13 - 13$$

$$18x^{2} - 78$$

$$18 - 78$$

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Find the EXACT solutions to this equation:

$$\frac{2}{3}x^2 - 9 = 7$$

$$\frac{3}{2} \cdot \frac{2}{3} \times^{2} = 16 \cdot \frac{3}{2}$$

$$\sqrt{\chi^{2}} = \sqrt{24}$$

$$\chi^{2} = \sqrt{24}$$

You can now finish Hwk #28

Sec 10-4

Pages 531-532 Twe Tomorrow

Problems 12-16, 20, 21, 23-25, 33-37