

9.2

Simplifying Radical Expressions

9.2

OBJECTIVES

1. Simplify expressions involving numeric radicals
2. Simplify expressions involving algebraic radicals

In Section 9.1, we introduced the radical notation. For most applications, we will want to make sure that all radical expressions are in *simplest form*. To accomplish this, the following three conditions must be satisfied.

Rules and Properties: Square Root Expressions in Simplest Form

An expression involving square roots is in *simplest form* if

1. There are no perfect-square factors in a radical.
2. No fraction appears inside a radical.
3. No radical appears in the denominator.

For instance, considering condition 1,

$\sqrt{17}$ is in simplest form because 17 has no perfect-square factors

whereas

$\sqrt{12}$ is *not* in simplest form

because it does contain a perfect-square factor.

$$\sqrt{12} = \sqrt{4 \cdot 3}$$

A perfect square

To simplify radical expressions, we'll need to develop two important properties. First, look at the following expressions:

$$\sqrt{4 \cdot 9} = \sqrt{36} = 6$$

$$\sqrt{4} \cdot \sqrt{9} = 2 \cdot 3 = 6$$

Because this tells us that $\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$, the following general rule for radicals is suggested.

Rules and Properties: Property 1 of Radicals

For any positive real numbers a and b ,

$$\sqrt{ab} = \sqrt{a} \cdot \sqrt{b}$$

In words, the square root of a product is the product of the square roots.

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Albert A Gayle



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