6.2.notebook

Section 6-2 Multiplying and Dividing Radical Expressions

Is
$$2^{2} \cdot 3^{2} = (2 \cdot 3)^{2}$$
?
 $4 \cdot 9 \quad 6^{2}$
 $3 \cdot 4 = 3 \cdot 4 \quad 9 \cdot 5$
Is $\sqrt{2} \cdot \sqrt{3} = \sqrt{2} \cdot 3$?
 $9 \cdot 6 \cdot 5$
(Check on calcs)

If a and b are real numbers, then

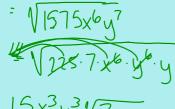
Can we simplify?

$$\sqrt{5}$$
 · $\sqrt[3]{12}$

To reduce a radical as much as possible, put the radical into its simplest form.

$$\sqrt{12}$$
 : $\sqrt{4.3}$ = $2\sqrt{3}$

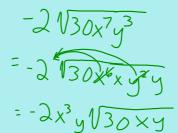
 $\sqrt{45x^5y^3} \cdot \sqrt{35xy^4}$



15x3y3V7y

pg. 371 #33.

 $-\sqrt[4]{2x^2y^2} \cdot 2\sqrt{15x^5y}$



#61.
$$\sqrt{2}(\sqrt{50} + 7)$$
 $\sqrt{100} + 7\sqrt{2}$
 $10 + 7\sqrt{2}$

Hwk: pg. 371 - 372 #16, 18, 20 - 36 (4th), 58 - 62 evens, 70, 72, 73 - 76 all