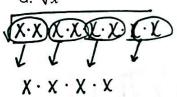
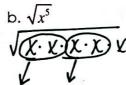
Day 5 - Simplifying Radicals with Variables - Notes

When simplifying radical expressions, you simplify the variables using the same method as you did previously (Remember $\sqrt{x^2} = x$; square and square roots undo each other).

a. $\sqrt{x^8}$

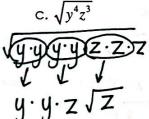


x4



 $X \cdot X \cdot \sqrt{X}$

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



 $y^2z\sqrt{2}$

Simplifying Kadical Expressions with Square Roots

When simplifying radical expressions, you simplify both the coefficients and variables using the same method as you did previously (Remember $\sqrt{x^2} = x$; square and square roots undo each other). Remember, anything that is left over stays under the radical!

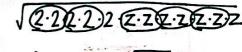
a. $\sqrt{9x^6}$



b. $\sqrt{4x^4}$

$$2\chi^2$$

c. $\sqrt{32z^7}$



2.2.Z.Z.Z.ZZZ

d. $\sqrt{45y^2}$



3y\5

e. $2\sqrt{27a^4b}$

2. 3.33 aa aa b

$$2 \cdot 3 \cdot a \cdot a \cdot \sqrt{3b}$$

$$\boxed{6a^2 \sqrt{36}}$$

f. $3\sqrt{12x^2}$

3. V2.2.3(X·X)

g. $3\sqrt{18a^4}$

3.12.3.3.000.0

3.3.a.a.va

h. $-2\sqrt{36}f^3g^4$

-2.6 VEDF9999

-12fg2/F

i. $5\sqrt{20x^{16}y^{10}}$

5 (25 K1410)

5.2.x8y5\5

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