

I'm not robot!



$$3^{\left(\frac{1}{2}\right)} * 9^{\left(\frac{1}{3}\right)}$$

since  $3 = \sqrt{9}$ , then

$$3 = 9^{\left(\frac{1}{2}\right)}$$

substitute  $9^{\left(\frac{1}{2}\right)}$  for the 3  
in the first factor

$$3^{\left(\frac{1}{2}\right)} * 9^{\left(\frac{1}{3}\right)} = 9^{\left(\frac{1}{2}\right)\left(\frac{1}{2}\right)} * 9^{\left(\frac{1}{3}\right)}$$

Radical Expressions and Radical Equations

1. Powers

$$a^x \cdot a^y = a^{x+y} \quad a^x \cdot a^{-y} = a^{x-y} \quad a^x \cdot a^y = a^{xy} \quad a^x \cdot a^y = a^{x/y}$$

$$a^x \cdot a^y = a^{x+y} \quad a^x \cdot a^{-y} = a^{x-y} \quad a^x \cdot a^y = a^{xy} \quad a^x \cdot a^y = a^{x/y}$$

2. Simplify the expression

$$a^x \cdot a^y = a^{x+y} \quad a^x \cdot a^{-y} = a^{x-y} \quad a^x \cdot a^y = a^{xy} \quad a^x \cdot a^y = a^{x/y}$$

$$a^x \cdot a^y = a^{x+y} \quad a^x \cdot a^{-y} = a^{x-y} \quad a^x \cdot a^y = a^{xy} \quad a^x \cdot a^y = a^{x/y}$$

$$a^x \cdot a^y = a^{x+y} \quad a^x \cdot a^{-y} = a^{x-y} \quad a^x \cdot a^y = a^{xy} \quad a^x \cdot a^y = a^{x/y}$$

Name \_\_\_\_\_

Properties of Exponents

Period \_\_\_\_\_

Simplify. Your answer should contain only positive exponents.

1)  $2m^2 \cdot 2m^3$   $4m^5$

2)  $m^4 \cdot 2m^{-3}$   $2m$

3)  $4r^{-3} \cdot 2r^2$   $\frac{8}{r}$

4)  $4n^4 \cdot 2n^{-3}$   $8n$

5)  $2k^4 \cdot 4k$   $8k^5$

6)  $2x^3y^{-3} \cdot 2x^{-1}y^3$   $4x^2$

7)  $2y^2 \cdot 3x$   $6y^2x$

8)  $4v^3 \cdot vu^2$   $4v^4u^2$

9)  $4a^4b^2 \cdot 3a^{-4}b^{-3}$   $\frac{12}{ab}$

10)  $x^2y^{-4} \cdot x^3y^2$   $\frac{x^5}{y^2}$

11)  $(x^2)^0$   $1$

12)  $(2x^2)^{-4}$   $\frac{1}{16x^8}$

13)  $(4r^3)^4$   $256$

14)  $(4a^2)^2$   $16a^4$

15)  $(3k^4)^4$   $81k^{16}$

16)  $(4xy)^{-1}$   $\frac{1}{4xy}$

Radical Worksheet 1: Simplify each radical.

Period \_\_\_\_\_

Simplify.

1)  $\sqrt{18}$

2)  $\sqrt{8}$

3)  $\sqrt{27}$

4)  $\sqrt{48}$

5)  $\sqrt{75}$

6)  $\sqrt{16}$

7)  $\sqrt{36}$

8)  $\sqrt{64}$

9)  $\sqrt{80}$

10)  $\sqrt{125}$

11)  $\sqrt{50}$

12)  $\sqrt{32}$

13)  $\sqrt{12}$

14)  $\sqrt{100}$

15)  $\sqrt{45}$

16)  $\sqrt{50}$







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