

**I'm not a robot!**



**Power Rule**

Use power rule and simplify. Write your answers in positive exponents.

1)  $(y^{-7})^{-6}$

2)  $(b^8)^{-9}$

3)  $(u^{-8})^8$

4)  $(c^4)^8$

5)  $(u^{-9})^{-8}$

6)  $(x^9)^{-7}$

7)  $(k^8)^2$

8)  $(x^{-4})^{10}$

9)  $(w^{-8})^{-9}$

10)  $(p^{-9})^8$

11)  $(x^9)^{-12}$

12)  $(s^{28})^2$

13)  $(m^7)^{-8}$

14)  $(a^{10})^4$

15)  $(h^7)^{16}$

16)  $(g^8)^{-9}$

17)  $(d^{-10})^{-7}$

18)  $(q^{-8})^8$

**Rational Exponents and Radical Equations****SOLUTIONS**

II. Solve the following.

1)  $\sqrt[3]{(x-27)^2} = 1+4$   
 $(x-27)^2 = 5^3$   
 $(\text{square both sides})$   
 $x-27 = \pm 125$   
 $x = 125 + 27$   
 $x = 152$

2)  $\sqrt[3]{8x+5} = \sqrt[3]{4}$   
 $8x+5 = 4^3$   
 $8x+5 = 64$   
 $8x = 59$   
 $x = \frac{59}{8}$

To check answer, substitute into original problem:  
 $\sqrt[3]{8(\frac{59}{8})+5} = \sqrt[3]{64} = 4$

III. Solve (Identify any extraneous solutions).

1)  $\sqrt{x+7} = x+8$   
 $(\text{square both sides})$   
 $x+7 = x^2+16x+64$   
 $x+7 = x^2+16x+64$   
 $x^2+15x+57 = 0$   
 $(x+1)(x+57) = 0$   
 $x = -1, -57$

2)  $\sqrt{2x+9} = \sqrt{x+9}$   
 $2x+9 = x+9$   
 $x = 0$

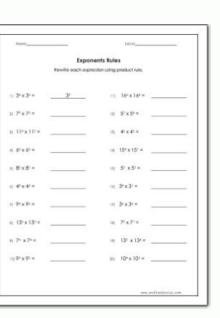
3)  $\sqrt{4x+7} = \sqrt{3x+7}$   
 $(\text{square both sides})$   
 $4x+7 = 3x+7$   
 $x = 0$

4)  $\sqrt{2x+1} = \sqrt{3x+1}$   
 $(\text{square both sides})$   
 $2x+1 = 3x+1$   
 $x = 0$

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# Exponent

$a^m \cdot a^n$	$a^{m+n}$
$a^{\frac{m}{n}} \div a^{\frac{n}{m}}$	$a^{m-n}$
$\left(\frac{a^m}{a^n}\right)$	$a^{m-n}$
$(a^m)^n$	$a^{mn}$
<b>FREE Printables!</b>	
$(ab)^n$	$a^n b^n$
$(a \div b)^n$	$a^n \div b^n$
$\left(\frac{1}{b}\right)^n$	$\left(\frac{1}{b^n}\right)$
$a^{-n}$	$\frac{1}{a^n}$
$\left(\frac{a}{b}\right)^{-n}$	$\left(\frac{b}{a}\right)^n$
$\left(\frac{a^n}{b^n}\right)$	$\left(\frac{a}{b}\right)^n$
$a^0$	1
$a^1$	a
$\left(\frac{a^m}{a^n}\right)$	$a^{m-n}$

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**Evaluate the Exponents**

1 )  $(-2)^4 = \underline{\hspace{2cm}}$       11 )  $(7)^3 = \underline{\hspace{2cm}}$

2 )  $(10)^4 = \underline{\hspace{2cm}}$       12 )  $(2)^4 = \underline{\hspace{2cm}}$

3 )  $(3)^3 = \underline{\hspace{2cm}}$       13 )  $(-12)^2 = \underline{\hspace{2cm}}$

4 )  $(-9)^4 = \underline{\hspace{2cm}}$       14 )  $(-4)^2 = \underline{\hspace{2cm}}$

5 )  $(2)^2 = \underline{\hspace{2cm}}$       15 )  $(12)^4 = \underline{\hspace{2cm}}$

6 )  $(3)^2 = \underline{\hspace{2cm}}$       16 )  $(3)^3 = \underline{\hspace{2cm}}$

7 )  $(-6)^2 = \underline{\hspace{2cm}}$       17 )  $(-8)^4 = \underline{\hspace{2cm}}$

8 )  $(-3)^4 = \underline{\hspace{2cm}}$       18 )  $(-10)^3 = \underline{\hspace{2cm}}$

9 )  $(-7)^3 = \underline{\hspace{2cm}}$       19 )  $(-2)^3 = \underline{\hspace{2cm}}$

10 )  $(4)^3 = \underline{\hspace{2cm}}$       20 )  $(9)^2 = \underline{\hspace{2cm}}$



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