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Name: _____ Score: _____

Power Rule

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

1) $(y^{-7})^{-6}$ 2) $(b^8)^{-4}$ 3) $(u^{-9})^6$

4) $(c^{-4})^2$ 5) $(u^{-9})^{-4}$ 6) $(z^9)^{-7}$

7) $(k^8)^2$ 8) $(c^{-4})^{10}$ 9) $(w^{-4})^{-8}$

10) $(p^{-9})^8$ 11) $(z^9)^{-10}$ 12) $(s^{10})^2$

13) $(m^7)^{-8}$ 14) $(a^{10})^4$ 15) $(h^7)^{10}$

16) $(g^4)^{-8}$ 17) $(d^{-10})^{-7}$ 18) $(q^{-4})^8$

Radical Equations and Radical Equations

Solve for x:

1) $\sqrt{x+1} = 3$
 $x+1 = 9$
 $x = 8$

2) $\sqrt{x-4} = 2$
 $x-4 = 4$
 $x = 8$

3) $\sqrt{x+9} = 4$
 $x+9 = 16$
 $x = 7$

4) $\sqrt{x-1} = 5$
 $x-1 = 25$
 $x = 26$

5) $\sqrt{x+16} = 6$
 $x+16 = 36$
 $x = 20$

6) $\sqrt{x-25} = 3$
 $x-25 = 9$
 $x = 34$

7) $\sqrt{x+4} = 1$
 $x+4 = 1$
 $x = -3$

8) $\sqrt{x-1} = 0$
 $x-1 = 0$
 $x = 1$

9) $\sqrt{x+1} = 2$
 $x+1 = 4$
 $x = 3$

10) $\sqrt{x-4} = 1$
 $x-4 = 1$
 $x = 5$

11) $\sqrt{x+9} = 4$
 $x+9 = 16$
 $x = 7$

12) $\sqrt{x-1} = 5$
 $x-1 = 25$
 $x = 26$

13) $\sqrt{x+16} = 6$
 $x+16 = 36$
 $x = 20$

14) $\sqrt{x-25} = 3$
 $x-25 = 9$
 $x = 34$

15) $\sqrt{x+4} = 1$
 $x+4 = 1$
 $x = -3$

16) $\sqrt{x-1} = 0$
 $x-1 = 0$
 $x = 1$

17) $\sqrt{x+1} = 2$
 $x+1 = 4$
 $x = 3$

18) $\sqrt{x-4} = 1$
 $x-4 = 1$
 $x = 5$

Exponent Rules

$a^m \cdot a^n$	a^{m+n}
$\frac{a^m}{a^n}$	a^{m-n}
$\left(\frac{a^m}{a^n}\right)$	a^{m-n}
$(a^m)^n$	a^{mn}
$(ab)^n$	$a^n b^n$
$(a \div b)^n$	$a^n \div b^n$
$\left(\frac{1}{b}\right)^n$	$\frac{1}{b^n}$
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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1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Name : _____ Score : _____
Teacher : _____ Date : _____

Evaluate the Exponents

- | | |
|----------------------|------------------------|
| 1) $(-2)^4 =$ _____ | 11) $(7)^3 =$ _____ |
| 2) $(10)^4 =$ _____ | 12) $(2)^4 =$ _____ |
| 3) $(3)^3 =$ _____ | 13) $(-12)^2 =$ _____ |
| 4) $(-9)^4 =$ _____ | 14) $(-4)^2 =$ _____ |
| 5) $(2)^2 =$ _____ | 15) $(12)^4 =$ _____ |
| 6) $(-3)^2 =$ _____ | 16) $(3)^3 =$ _____ |
| 7) $(-6)^2 =$ _____ | 17) $(-8)^4 =$ _____ |
| 8) $(-3)^4 =$ _____ | 18) $(-10)^3 =$ _____ |
| 9) $(-7)^3 =$ _____ | 19) $(-2)^3 =$ _____ |
| 10) $(4)^3 =$ _____ | 20) $(9)^2 =$ _____ |



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