

Algebra 1
Section 6.3 Worksheet #1 p310

Name: _____

5.	6.	7.
8.	9.	10.

11. <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>1</td><td>-2</td></tr><tr><td>2</td><td>0</td></tr><tr><td>3</td><td>2</td></tr><tr><td>4</td><td>4</td></tr></tbody></table>	x	y	1	-2	2	0	3	2	4	4	12. <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>1</td><td>6</td></tr><tr><td>2</td><td>12</td></tr><tr><td>3</td><td>24</td></tr><tr><td>4</td><td>48</td></tr></tbody></table>	x	y	1	6	2	12	3	24	4	48
x	y																				
1	-2																				
2	0																				
3	2																				
4	4																				
x	y																				
1	6																				
2	12																				
3	24																				
4	48																				

13. <table border="1"><thead><tr><th>x</th><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr></thead><tbody><tr><th>y</th><td>0.25</td><td>1</td><td>4</td><td>16</td><td>64</td></tr></tbody></table>	x	-1	0	1	2	3	y	0.25	1	4	16	64	14. <table border="1"><thead><tr><th>x</th><td>-3</td><td>0</td><td>3</td><td>6</td><td>9</td></tr></thead><tbody><tr><th>y</th><td>10</td><td>1</td><td>-8</td><td>-17</td><td>-26</td></tr></tbody></table>	x	-3	0	3	6	9	y	10	1	-8	-17	-26
x	-1	0	1	2	3																				
y	0.25	1	4	16	64																				
x	-3	0	3	6	9																				
y	10	1	-8	-17	-26																				

15.	16.
17.	18.
19.	20.

41.

Review 6.1 and 6.2**Simplify the exponential expression. Write the expression with positive exponents.**

1. $\frac{3^3 \cdot 3^9}{3^{17}}$	2. $\frac{x^{-7}}{x^5 \cdot x^{-14}}$	3. $\left(\frac{y^{-5}}{y^9}\right)^{-4}$
4. $20x^{-8}y^{-8}$	5. $(4x^{-4}y^{-12})^{-5}$	6. $\frac{-48x^{-6}y^4}{52x^9y^{-2}}$
7. $x^2x^{-5}y^7y^{-8}$	8. $\frac{12xy}{7x^4} \cdot \frac{7x^5y^2}{4y}$	9. $(4x^2y^5)^{-2}$

Rewrite the radical form in an expressional expression.

10. $\sqrt{10}$	11. $\sqrt[4]{7}$	12. $(\sqrt[3]{-13})^5$
-----------------	-------------------	-------------------------

Rewrite the expression into radical form.

13. $(\sqrt[4]{110})^7$	14. $-15^{1/2}$	15. $7^{1/4}$
-------------------------	-----------------	---------------

Evaluate the expression.

16. $(-625)^{1/4}$	17. $\sqrt[3]{-125}$	18. $1000^{4/3}$
--------------------	----------------------	------------------