

Math 1 Exponent Rules Sec 6.0

Part A Practice finding the following powers without a calculator:

1. 5^3

2. 5^2

3. 2^5

4. 3^2

5. 2^4

6. 3^3

7. 2^3

8. 4^2

9. 4^3

10. 5^2

11. 2^5

12. 3^4

Part B Practice using the rules for 0 and negative exponents to simplify:

1. 2^0

2. $(\frac{1}{3})^0$

3. $(\frac{1}{4})^0$

4. 98^0

5. 2^{-3}

6. $(\frac{1}{3})^{-2}$

7. $(\frac{1}{4})^{-2}$

8. 3^{-4}

Part C Complete the following t-tables and then graph the functions:

1. $y = 2^x$

x	y
-2	
-1	
0	
1	
2	

2. $y = 3^x$

x	y
-2	
-1	
0	
1	
2	

3. $y = (\frac{1}{2})^x$

x	y
-2	
-1	
0	
1	
2	

4. $y = (\frac{1}{3})^x$

x	y
-2	
-1	
0	
1	
2	

5. $y = 4^x$

x	y
-2	
-1	
0	
1	
2	

6. $y = 5^x$

x	y
-2	
-1	
0	
1	
2	

7. $y = (.25)^x$

x	y
-2	
-1	
0	
1	
2	

8. $y = 2(3)^x$

x	y
-2	
-1	
0	
1	
2	