

10.4 – Zero and Negative Exponents

Math is patterns. Let's look at a couple...

2^{-3}	
2^{-2}	
2^{-1}	
2^0	
2^1	
2^2	
2^3	

3^{-3}	
3^{-2}	
3^{-1}	
3^0	
3^1	
3^2	
3^3	



Key Concepts...

Now let's practice. Evaluate each expression.

A. 4^{-2}

B. $(-8.5)^{-4} \cdot (-8.5)^4$

C. $\frac{2^6}{2^8}$

D. $(-2)^{-5}$

E. $6^{-8} \cdot 6^8$

F. $\frac{(-3)^5}{(-3)^6}$

G. $\frac{1}{5^7} \cdot \frac{1}{5^{-4}}$

H. $\frac{4^3 \cdot 4^{-3}}{4^2}$

I. $-5x^0$

J. $\frac{9y^{-3}}{y^5}$

K. $\frac{4w^7}{2w^2}$

L. $\frac{9c^3}{3c^8}$