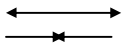

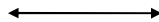


# **h(x) Summary Sheet**

MATH by Wilson  
Your Personal Mathematics Trainer



**B** : Domain Effect      Horizontal 



Horizontal *Contraction*      Horizontal *Stretch*  
when  $|B| > 1$       when  $0 < |B| < 1$

*Reflection* in  $x = -\frac{C}{B}$  when  $B < 0$


**D** : Range Effect  
Vertical  
*Translation*

   
 $|D|$  units *upward*  
when  $D > 0$


   
 $|D|$  units *downward*  
when  $D < 0$

$$h(x) = A * f(B * x + C) + D$$


**A** : Range Effect  
Vertical



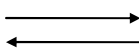
Vertical *stretch* when  $|A| > 1$




Vertical *contraction* when  $0 < |A| < 1$




*Reflection* in  $y = 0$  when  $A < 0$

**C** : Domain Effect      Horizontal  
*Translation* 

$\frac{|C|}{|B|}$  units to the *right* when  $\frac{C}{B} < 0$



$\frac{|C|}{|B|}$  units to the *left* when  $\frac{C}{B} > 0$



Order:  $f \rightarrow h$

$$f(x) \rightarrow f(Bx) \rightarrow f(Bx + C) \rightarrow Af(Bx + C) \rightarrow Af(Bx + C) + D = h(x)$$



ERROR: undefined  
OFFENDING COMMAND:

STACK: