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## Functions: Lesson 6

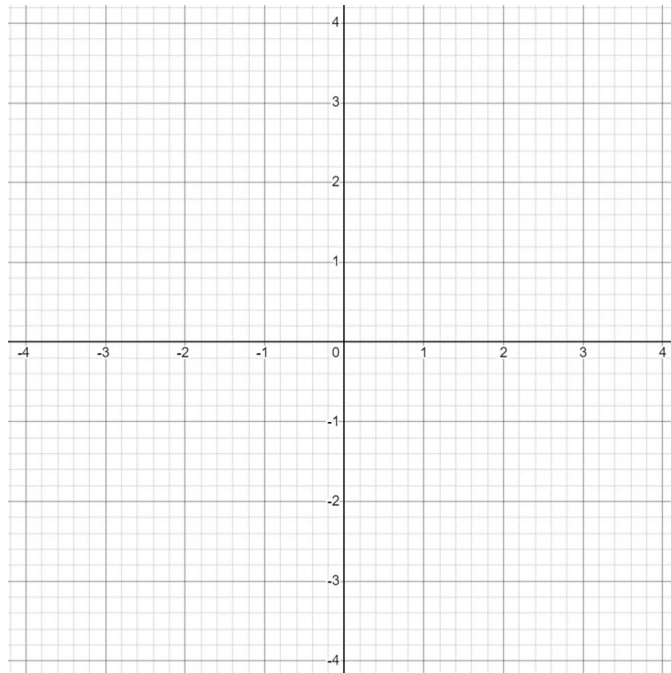
### Parent Functions and Translations: Notes

Name: \_\_\_\_\_



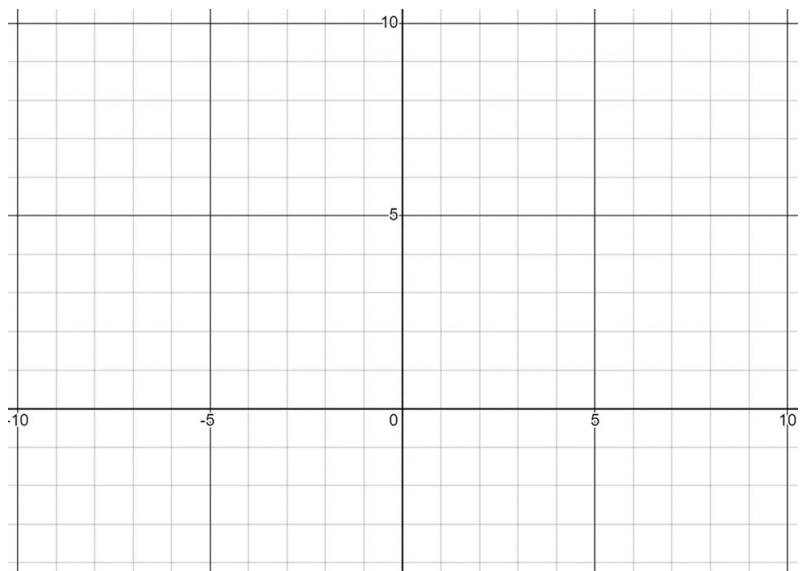
$$y = x$$

x	y
0	
1	
3	



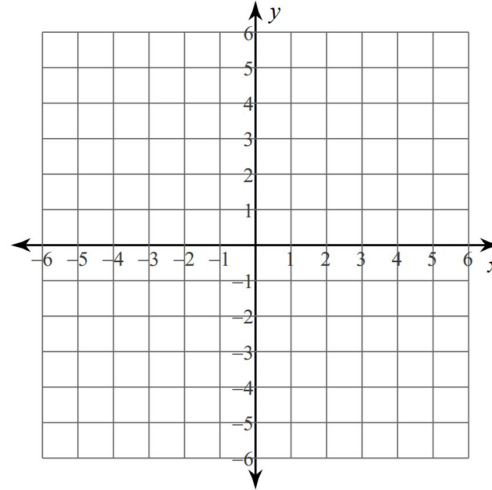
$$y = x^2$$

x	y	x	y
0		-1	
1		-2	
2		-3	
3			



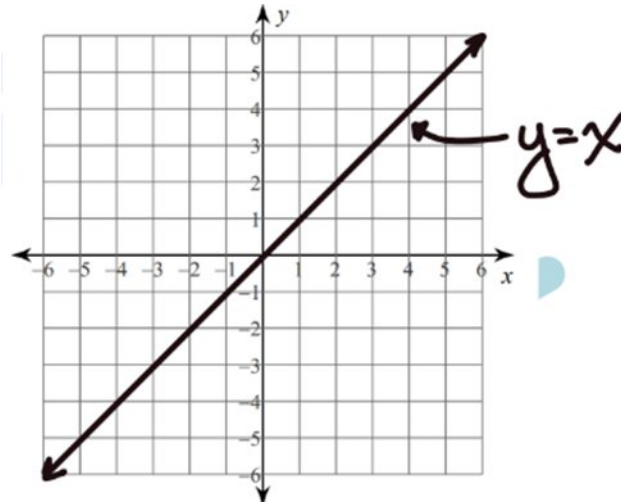
$$y = |x|$$

x	y	x	y
0		-1	
1		-2	
2			



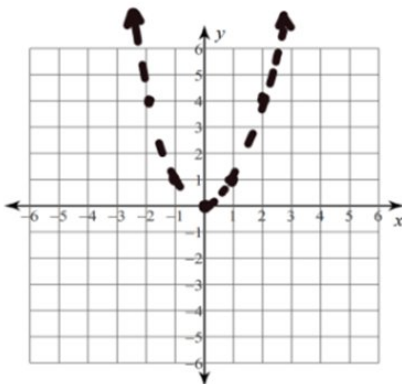
$$y = x + 3$$

\_\_\_\_\_ translation of \_\_\_\_\_

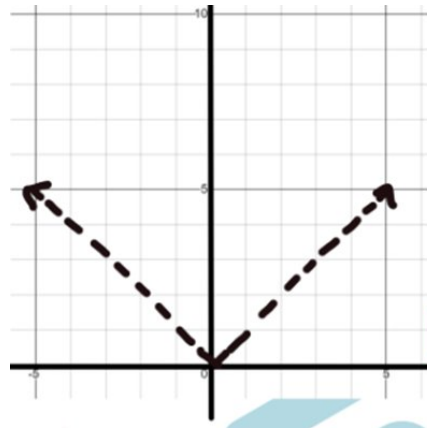


When a number is \_\_\_\_\_ my parent function, like

$$y = x^2 - 4$$



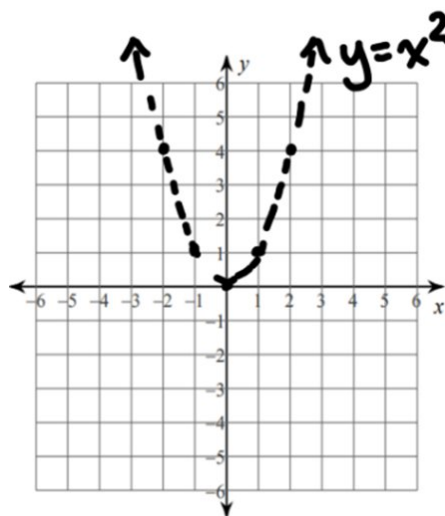
$$y = |x| + 7$$



I have a \_\_\_\_\_ translation by that amount.

$$y = (x + 4)^2$$

" \_\_\_\_\_ " land



$$y = |x - 2|$$

