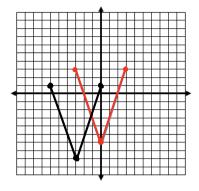
Unit 2A Quiz 1 Review

Use the following function Victor, V(x) to answer the questions 1-3

1. List the characteristic points of V(x).

2. What are the domain and range of V(x)?

3. State the effect on Victor for V(x + 3) - 2. Then graph it on the coordinate grid with V(x).

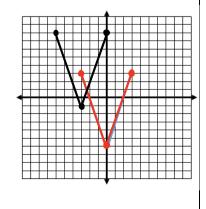


For each function, describe in words all of the transformations to the P(x) in the order that they occur.

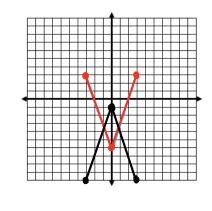
	Function	Transformations
4.	y = P(x-3) + 5	shifted right 3 + up 5 units
5.	$y = \frac{1}{4}P(x+1)$	vertical shrink by of a shifted left I unit
6.	y = 7P(-x) - 2	vertical stretch by 7, reflection over y-axis, + shifted down 2 units
7.	y = -4P(x - 2) + 11	reflection over the x-axis, vertical stretch by 4, shifted rish a & up II units

Graph each transformation on the coordinate grid with the parent function Maximus, M(x).

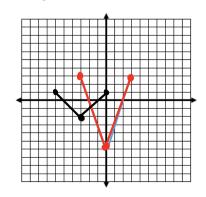
8.
$$y = V(x+3) + 5$$



9.
$$y = -V(x) - 7$$



10.
$$y = \frac{1}{3}M(x+3)$$



11.	Circle the correct term : The domain is affected when a transformation is moved <u>left and right</u> or <u>up</u>		
	and down		
12.	Write the equation that would translate $F(x)$ 5 units up.		
	Fcx) + 5		
13.	Write the equation that would translate $F(x)$ 8 units down and 6 units right.		
	F(x-b)-8		
14.	Write the equation that would reflect $F(x)$ in the x-axis and vertically shrink by $1/6$		
	- 16 F(x)		
15.	Write the equation that would reflect $F(x)$ in the y-axis and translate it 5 units down.		
	F(-x) - 5		
16.	Write the equation that would vertically shrink $F(x)$ by $1/5$ and translate down by 2		
	1/5 F(x) - 2		
17.	Write the equation that would reflect $F(x)$ in the x-axis, vertically shrink it by $1/3$ and translate it 2 units right and 4 units down.		
	$-\frac{1}{3}F(x-2)-4$		
18.	If the domain and range of $P(x)$ are $D=4 \le x \le 9$ and $R=-5 \le y \le -1$ what would be the domain and range of the transformed function $y=-P(x)$?		
	0:4 4 x 4 9 R: 1 4 y 4 5		
19.	If the domain and range of $P(x)$ are $D=4 \le x \le 9$ and $R=-5 \le y \le -1$ what would be the domain and range of the transformed function $y=4P(x)$?		
	0:46x69 R!-20676-4		
20.	If the domain and range of $P(x)$ are $D=4 \le x \le 9$ and $R=-5 \le y \le -1$ what would be the domain and range of the transformed function $y=2P(x+3)-4$?		
	D: 1 4 x 4 6 R: -14 4 y 4 - 6		