

4.1 Translations Homework

Name _____

15. Graph $\triangle PQR$ with vertices $P(-2, 3)$, $Q(1, 2)$, and $R(3, -1)$ and its image after the translation $(x, y) \rightarrow (x + 9, y - 2)$

	x	y		x	y
P	2	3	P'		
Q	1	2	Q'		
R	3	-1	R'		

16. Graph $\triangle PQR$ with vertices $P(-2, 3)$, $Q(1, 2)$, and $R(3, -1)$ and its image after the translation $(x, y) \rightarrow (x - 1, y + 3)$

	x	y		x	y
P	2	3	P'		
Q	1	2	Q'		
R	3	-1	R'		

17. Graph $\triangle XYZ$ with vertices $X(2, 4)$, $Y(6, 0)$, and $Z(7, 2)$ and its image after the composition

Translation: $(x, y) \rightarrow (x + 12, y + 4)$

Translation: $(x, y) \rightarrow (x - 5, y - 9)$

	x	y		x	y		x	y
X	2	4	X'			X''		
Y	6	0	Y'			Y''		
Z	7	2	Z'			Z''		

18. Graph $\triangle XYZ$ with vertices $X(2, 4)$, $Y(6, 0)$, and $Z(7, 2)$ and its image after the composition

Translation: $(x, y) \rightarrow (x - 6, y)$

Translation: $(x, y) \rightarrow (x + 2, y + 7)$

	x	y		x	y		x	y
X	2	4	X'			X''		
Y	6	0	Y'			Y''		
Z	7	2	Z'			Z''		