

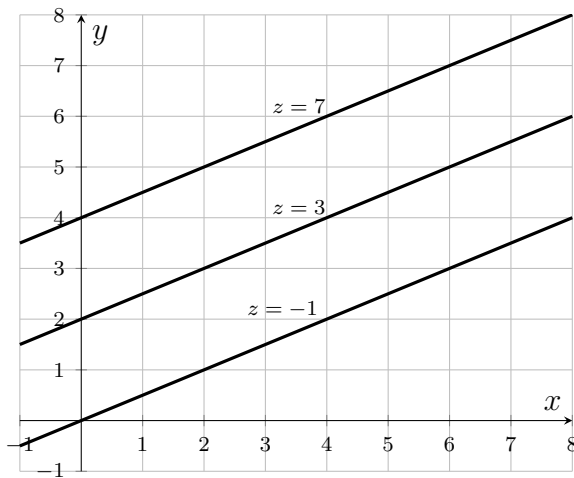
Name _____

Homework 4
Section 12.4

1. (5) Complete the partial table below so that it represents a linear function.

$x \backslash y$	-1	1	4
2		4	
3	12		
5		10	

2. (5) The contour diagram below shows three level curves of the linear function $g(x, y)$. Find a formula for $g(x, y)$.



3. (5) Complete the partial table below so that it represents a linear function.

$x \backslash y$	-1	0	1	5
-2	-7			
0		-2		
2				
4	5			

4. (5) Determine the equation of the plane which passes through the points $(3, -2, -4)$, $(0, 4, 4)$, and $(-6, 1, -2.5)$.