

If we draw the line segment connecting the two possible examples -1 and 3, but I fall within this range, which means this point must be classified as both positive and negative, which is impossible. The positive region is cover. Therefore, this dataset is not linearly separable.

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(b)	$\phi_{i}(x)$	Ø2(X)	11
	-1		11
	1	1	0
	3	9	-1
			_
	-W, f1	N2 >0	
	w, +	W2 <0	

3W, +9Wz >0

 $W_1 = -1 \quad W_2 = \frac{1}{2}$