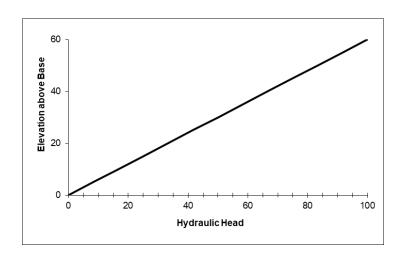
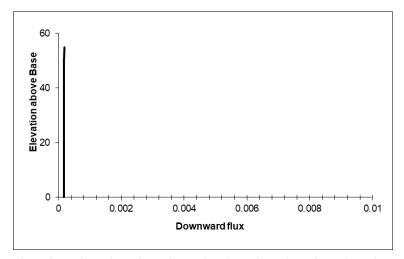
## Homework 1

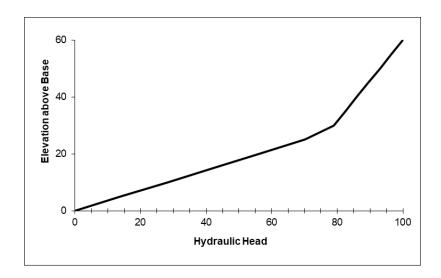
## - Homogeneous using all k zone 3

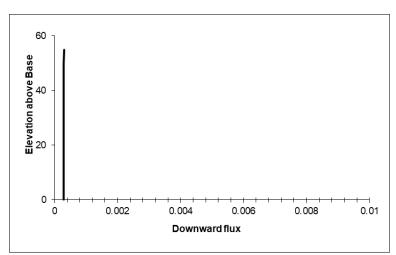




Dire	ct solution t	for flux														
											Ma	ap of node and cell numbers				
	K	num cells	Z	K zone cell	K cell	H	q	zone 1	zone 2	zone 3						
zone 1	0.0004	0										node	cell			
zone 2	0.01	0	60	3	1E-04	100		0	0	1	1	-		1		
zone 3	0.0001	12	55	3	1E-04	91.6625	0.00017	0	0	1	2	-		2		
			50	3	1E-04	83.3256	0.00017	0	0	1	3	-		3		
Keq	0.0001		45	3	1E-04	74.9895	0.00017	0	0	1	4	-		4		
q	0.000167	•	40	3	1E-04	66,6542	0.00017	0	0	1	5	-		5		
			35	3	1E-04	58.3199	0.00017	0	0	1	6	-		6		
			30	3	1E-04	49.9866	0.00017	0	0	1	7	-		7		
			25	3	1E-04	41.6541	0.00017	0	0	1	8	-		8		
			20	3	1E-04	33.3225	0.00017	0	0	1	9	-		9		
			15	3	1E-04	24.9914	0.00017	0	0	1	10	-		10		
			10	3	1E-04	16.6608	0.00017	0	0	1	11	-		11		
			5	3	1E-04	8.33041	0.00017	0	0	1	12	-		12		
			0	3	1E-04	0	0.00017	0	0	1	13	-		13		

## - Heterogenous using k zone 1 and 3





Dire	ct solution fo	or nux												
											Mag	of node a	nd cell numbers	
	K	num cells	Z	K zone cell	K cell	H	q	zone 1	zone 2	zone 3				
zone 1	0.0004	6.5										node	cell	
zone 2	0.01	0	60	1	4E-04	100		1	0	0	1	-		1
zone 3	0.0001	5.5	55	1	4E-04	96.4872	0.00028	1	0	0	2	-		2
			50	1	4E-04	92.9749	0.00028	1	0	0	3	-		3
Keq	0.000168		45	1	4E-04	89.4633	0.00028	1	0	0	4	-		4
q	0.000281		40	1	4E-04	85.9526	0.00028	1	0	0	5	-		
			35	1	4E-04	82.4428	0.00028	1	0	0	6	-		(
			30	1	4E-04	78.9339	0.00028	1	0	0	7	-		
			25	3	1E-04	70.1626	0.00028	0	0	1	8	-		
			20	3	1E-04	56.1293	0.00028	0	0	1	9	-		9
			15	3	1E-04	42.0965	0.00028	0	0	1	10	-		1
			10	3	1E-04	28.0642	0.00028	0	0	1	11	-		1
			5	3	1E-04	14.0321	0.00028	0	0	1	12	-		1
			0	3	1E-04	0	0.00028	0	0	1	13	-		1