





























P	Precision-	Recall G	aph	
1	1	1	0.2	• Imagine that a
2	1	1	0.4	query is submitted to the
3	0	0.666666667	0.4	submitted to the
4	1	0.75	0.6	• 14 documents
5	0	0.6	0.6	• 14 documents
6	1	0.666666667	0.8	• 5 of them are
7	0	0.571428571	0.8	relevant
8	0	0.5	0.8	These 5 are also
9	0	0.44444444	0.8	the total
10	0	0.4	0.8	number of
11	0	0.363636364	0.8	relevant
12	0	0.333333333	0.8	document in the
13	1	0.384615385	1	collection
14	0	0.357142857	1	concention

















Exercise 1

Imagine that an IR system retrieved 10 document in answer to a query, but only the document number 1, 3, 5, 7 are relevant.

Calculate Precision, Recall and Fallout considering that there are other 6 relevant documents that were not retrieved and that the total number of documents in the collection is 100 (included the 10 retrieved).















































- 5	Slid		Sum of the weights so far		
	n	doc	<i>relevance</i> , (w_i)	W_i	
	1	d_1	7.0	7.0	
	2	d_2	5.0	12.0	/
	3	d_3	0.0	12.0	
	4	d_4	2.5	14.5	
	5	d_5	8.2	22.7	



Sliding Ratio									
n	doc	$relevance, (w_i)$	W_{i}	doc	$relevance,(w_i)$	W_i			
1	d_1	7.0	7.0	d_5	8.2	8.2			
2	d_{2}	5.0	12.0	d_1	7.0	15.2			
3	d_3	0.0	12.0	d_2	5.0	20.2			
4	d_{Λ}	2.5	14.5	d_4	2.5	22.7			
5	d_{5}	8.2	22.7	d_3	0.0	22.7			
Real system					Ideal system				







