Instructions: Show all work to receive full credit. You should note any formulas used or calculator functions used, their inputs and outputs. I cannot grade work if I don't know where an answer came from. Be sure complete all parts of each questions, including requests for interpretation and explanations. Be as thorough as possible.

1. Evaluate
$$\frac{|-2x+1|}{\sqrt{|x-y|+1}}$$
 for $x=1,y=4$. Reduce completely.

$$\frac{|-2(1)+1|}{\sqrt{|1-4|+1|}} = \frac{|-2+1|}{\sqrt{|-3|+1|}} = \frac{|-1|}{\sqrt{3+1}} = \frac{|-1|}{\sqrt{3}}$$

2. Based on the two-way table below, what is the number of people who have neither a job title nor & phone.

	Job Title not present	Job Title present	Total		
Business Phone not present	2,240	931	3,171		
Business Phone present	386	1,443	1,829		
Total	Total 2,626		5,000		

2,240

3. The table above lists the favourite summertime activities of 24 10-year-olds. Construct a frequency table and relative frequency table for this data. (You can use the back of the page.)

	o requertey table to	i tilis data. (1	ou can use the back	of the page.)
Track	Baseball/Softball	Basketball	Swimming	Ballet
Swimming	Basketball	Track	-	Swimming
Baseball/Softball	Swimming	Soccer		Soccer
Swimming	Swimming	Track	Baseball/Softball	Soccer
	Track Swimming Baseball/Softball	Track Baseball/Softball Swimming Basketball Baseball/Softball Swimming	Track Baseball/Softball Basketball Swimming Basketball Track Baseball/Softball Swimming Soccer	Swimming Basketball Track Swimming Baseball/Softball Swimming Soccer Soccer

Sport	1 Tally	Frequences	Relative Frequency
ballet	111	3	3/24 = 12.5%
Track	a)	3	12.5%
B/S	m ·	3	12.5%
Buskellall	us	3	12.5%
Summe	MILL	7	7/24 = 29.2%
Cycline	1	1	Y24 = 4.2%
Soccer	I THE	7	424 = 16.7%