## **Problem Psychometric Function**

An observer responds according to a psychometric function shaped like a cumulative Gaussian probability function in a signal detection task. The table lists the number of yesresponses out of 50 trials for five stimulus levels given in arbitrary units.

Stimulus level	0.4	0.9	1.2	1.7	2.3
Number of yes Responses	1	6	13	32	49

Fit the psychometric function to the data using a squared error function.

- What are the estimates of the parameters of the psychometric function?
- In a follow-up experiment we use only intensity levels 1 and 2. The task of the observer is to say whether the intensity level is 'high' or 'low'. What value do we expect for the sensitivity (d')?