Your name:		 	
Names of pe	eople you worked with:	 	

**Task**: Consider a test  $\delta$  with size =  $\alpha_0$  on data which are iid  $N(\mu, \sigma^2)$ . You are testing the following hypotheses:

 $H_0: \qquad \mu \ge \mu_0$  $H_1: \qquad \mu < \mu_0$ 

Fill in the following table (for a size  $\alpha_0$  test with reasonable properties):

power	$ $ = or $<$ or $>$ or $\rightarrow$	$\alpha_0$ or $1-\alpha_0$ or 0 or 1	when
$\pi(\mu, \sigma^2   \delta)$			$\mu = \mu_0$
$\pi(\mu, \sigma^2   \delta)$			$\mu > \mu_0$
$\pi(\mu, \sigma^2   \delta)$			$\mu < \mu_0$
$\pi(\mu, \sigma^2   \delta)$			$\mu  o \infty$
$\pi(\mu, \sigma^2   \delta)$			$\mu \to -\infty$