

# Quiz 4: Normal Distributions

Name:

1. (5 pts) Draw (carefully!) a normal curve, with mean  $\mu$  and standard deviation  $\sigma$ . Indicate as precisely as possible the location of  $\mu + \sigma$ .
2. (2.5 pts) Suppose  $\mu = 40$  and  $\sigma = 5$ . What is the Z-value corresponding to  $x = 47.5$ ?
3. (2.5 pts) Suppose  $\mu = 40$  and  $\sigma = 5$ . Using the standard normal table, give the fraction of data expected between the values of 40 and 47.5.