

Math 107-03 14 Name \_\_\_\_\_ Date \_\_\_\_\_

**Show all work for full credit. DO NOT USE z-score table!**

Assume that men's height are normally distributed with mean 69 inches and std dev 3 inches. Draw an appropriately labeled bell curve. In a city of 20,000, how many men would be

1. Between 63 and 75 inches tall?
2. Between 66 and 69 inches tall?
3. Under 60 inches tall?

Assume that Math test scores are normally distributed with mean 82.3 and std dev 4.4,

4. You scored 89 in Math. What is the equivalent score on an ADW test, assuming those scores are normally distributed with mean 86.7 and std dev 3.8?
5. If your friend scored 80 in Math and 85 in ADW, which test did she do WORSE on, relatively speaking? Explain in detail as always.