**Algebra 2 Honors**                                        **Name**_____

**Homework – Normal Curve – Day 2**


Suppose the heights (in inches) of adult females in the United States are normally distributed with a mean of 63.9 inches and a standard deviation of 2.8 inches. Draw a graph that represents this information. Find each of the following.

1. The percent of women who are no more than 65 inches tall.

2. The probability that a randomly chosen woman is between 60 inches and 63 inches tall.

Suppose a compact fluorescent light bulb produced by a certain manufacturer lasts, on average 10,000 hours. The standard deviation is 720 hours. Draw a graph that represents this information. Find each of the following.

1. The percent of light bulbs that burn out within 11,000 hours

2. The probability that a randomly chosen light bulb burns out between 9200 hours and 10,800 hours