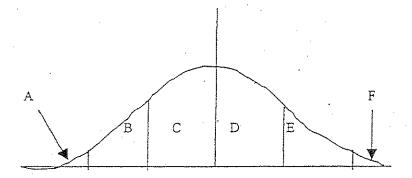
1. The distribution of heights of adult Amerian men is approximately normal with mean 69 inches and standard deviation 2.5 inches. Draw a normal curve on which this mean and standard deviation are correctly located (Hint: Draw the curve first, locate the points where the curvature changes, then mark the horizontal axis)

- The distribution of heights of adult American men is approximately normal with mean 69 inches and standard deviation 2.5 inches. Use the 68-95-99.7 rule to answer the following questions and JUSTIFY you answers.
 - A. What percent of men are taller than 74 inches?
 - B. Between what heights do the middle 95% of men fall?
 - C. What percent of men are shorter than 66.5 inches?
- 3. Scores on the Wechsler Adult Intelligence Scale (WAIS, a standard "IQ test") for the 20 to 34 age group are approximately normally distributed with a mean of 110 and a standard deviation of 25. Use the 68-95-99.7 rule to answer the following questions and JUSTIFY you answers
 - A. About what percent of people in this age group have scores above 110?
 - B. About what percent have scores above 160?
 - C. In what range do the middle 95% of all IQ scores lie?

2 For the Normal distribution shown, find the following:



The probability of a score falling:

- A. In area A?
- B. In area C?
- C. In area C or D?
- D. In area A, B, or C?
- E. In area E?
- F. In Area A or F?
- G. Below Area F?
- H. Above Area B?
 - 3 If the mean of the distribution above is 50 and the standard deviation is 8, at what value does the line separating area E from area F fall?
- 4 How many standard deviations would a value of 62 be from the mean?
- 5. How many standard deviations would a value of 40 be from the mean?