

**Homework – Normal Curve – Day 1**

The test scores in Ms. Tonry's Algebra2 class have a mean of 87 with a standard deviation of 3. Sketch a graph of this normal curve.

1. What percentage of scores are below 90? \_\_\_\_\_

2. What percentage of scores are between 84 and 96? \_\_\_\_\_

3. What percentage of scores are above 90? \_\_\_\_\_

Find the probabilities.

1.  $P(z < 3)$

1. \_\_\_\_\_

2.  $P(z > 3)$

2. \_\_\_\_\_

3.  $P(z > -1.5)$

3. \_\_\_\_\_

4.  $P(z < 2.3)$

4. \_\_\_\_\_

5.  $P(-0.62 < z < 1.23)$

5. \_\_\_\_\_

6.  $P(-1.23 < z < 0.62)$

6. \_\_\_\_\_