MAT 035, Quiz #2, Spring 2017   Name _____KEY_____

Instructions: Show all work. Use exact answers, unless specifically asked to round.

1. Evaluate.
   a. $(-4)^2$ b. $\sqrt{1024}$

   16   32

2. Simplify $\dfrac{1-(3-4^2)}{\sqrt{4}+6}$. Write your answer as an integer or as a fraction in lowest terms.

   $$\frac{1-(3-16)}{2+6} = \frac{1-(-13)}{8} = \frac{14}{8} = \frac{7}{4}$$

3. Write the following numbers in scientific notation.
   a. 17,000,000,000

   1.7×10^{10}

   b. 0.00000913

   9.13×10^{-6}

4. Which of the following symbols is the Greek letter mu? Circle your choice.
   a. α b. β (c. μ)   d. ϵ e. θ

5. Write the Greek letter sigma – both capital and lower case.

   $\Sigma \quad \sigma$