MATH 1314.003-Spring 2002   Skills Assessment 0   Name: *Key*

Write your answers in the place provided. Passing is 4 of 5 answers completely correct. You may retake this test as needed. You may not use calculators, notes, books or the paper of another person on this assessment. (This one is just for practice!!)

1. Which of the following are rational numbers

$$2, 3/-4, \sqrt{\frac{9}{4}}, \sqrt{5}, 3.8$$

Answer: $2, \frac{3}{-4}, \sqrt{\frac{9}{4}} = \frac{3}{2} \quad 3.8 = \frac{38}{10}$

2. Express the following without absolute value signs

$$\left| \sqrt{2} - 2 \right| \quad < 0 \quad \text{So}$$
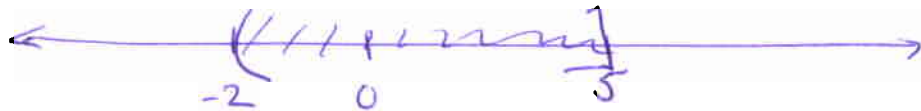
Answer: $-\left(\sqrt{2} - 2 \right) = -\sqrt{2} + 2$

$$= 2 - \sqrt{2}$$

3. Which inequality symbol (< or >) would be placed between the numbers 4 and -8?

Answer: $>$

4. Sketch the subset on the number line for the inequality $-2 < x \leq 5$

Answer:

5. Write a formula with absolute value signs for the distance between a = -2 and b = 5. Do not simplify the formula.

Answer: $\left| -2 - 5 \right|$

or $\left| 5 - (-2) \right|$