

Math1010 - HW1 - August 21, 2017

Do the following problems from your text, for class discussion Wednesday, but don't turn the text problems in.

1.1 37, 39, 53, 55, 56, 63

1.2 31-49 odds

Do the following problems on THIS paper and turn THIS PAPER in Wednesday.

Perform the operations then simplify.

1. $\frac{3}{5} + \frac{9}{2}$

2. $\frac{3}{16} + \frac{10}{27} \div \frac{6}{7}$

3. $4 \cdot (-1)^2 - 3^{-2}$

4. $|34 - 91|$

5. Do this exactly, no approximation. $|\sqrt{10} - \pi|$

HINT: No decimals should be in your answer, but you should calculate to see if the result is positive or negative.

6. $|3.1^2 - 2^{3.1}|$

7. Convert to a fraction, exactly: $\overline{.31}$

8. Convert to a decimal approximating to 4 significant digits: $\frac{13}{7}$

9. What is the distance between the points -7 and 12 on the real number line?

10. Find two numbers a and b so that this is true: $\frac{a}{b} = \frac{b}{a}$
HINT: There may be more than one correct answer.

11. Find two numbers a and b so that $|a + b| = |a| + |b|$
HINT: There may be more than one correct answer.

12. Find three numbers a , b , and c so that $|a + b + c| = |abc|$
HINT: There may be more than one correct answer.