

Written HW2 – MATH 1430 Fall 2022

1. Compute $\frac{1}{3} + \frac{1}{4} + \frac{1}{5}$.

2. List the numbers described by

$$\{x|x \text{ is an integer, } x > -7, \text{ and } x \leq 10\}$$

3. Evaluate the expression $2x^2 - 3x^3$ at $x = 2$.

4. Evaluate the expression $-7x + 2(x^2 + y)$ at $x = 1$ and $y = 2$.

5. Sketch and simplify the intersection

$$(-\infty, 4] \cap (1, 10).$$

6. Sketch and simplify the union

$$(4, 10) \cup [15, \infty).$$