

Math 0020 January 25, 2017 Homework 5

$$A = \{5, 7, 8, 9, 12, 20\}$$

$$B = \{3, 7, 9, 18, 20, 30\}$$

$$C = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$D = \{2, 3, 5, 7, 11, 13, 19, 23\}$$

$$E = \{4, 6, 8, 10, 12, 14\}$$

Find each set by listing its elements within braces.

1. $A \cup B$

2. $A \cap B$

3. $B \cap D$

4. $D \cap E$

5. $E \cup A \cup C$

6. $A \cap B \cap D$

Graph each of the following sets.

7. $\{x|x > -2\}$

8. $x \geq -4$

9. $\{x|-3 < x < 3\}$

10. $\{x|x \leq 7\} \cap \{x|x > -5\}$

11. $\{x|x < -4\} \cup \{x|x \geq 3\}$

12. $\{x < 4\} \cap \{x \geq -3\}$

13. $\{x > -1\} \cup \{x \leq 2\}$