The Number Systems and the Real Number Line

1. Write each set

A is the set of natural numbers less than 7

2. Write each set

A is the set of whole numbers less than 4

3. Write each set

C is the set of integers between -2 and 3 including -2 and 3

4. List the elements in the set

$$\left\{-3,-2.1,0,\frac{1}{2},0.\overline{3},5,1.202002000\ldots\right\}$$

natural numbers

5. List the elements in the set

$$\left\{-3,-2.1,0,\frac{1}{2},0.\overline{3},5,1.202002000\ldots\right\}$$

whole numbers

6. List the elements in the set

$$\left\{-3,-2.1,0,\frac{1}{2},0.\overline{3},5,1.202002000\ldots\right\}$$

integers

7. List the elements in the set

$$\left\{-3,-2.1,0,\frac{1}{2},0.\overline{3},5,1.202002000\ldots\right\}$$

rational numbers

8. List the elements in the set

$$\left\{-3,-2.1,0,\frac{1}{2},0.\overline{3},5,1.202002000\ldots\right\}$$

irrational numbers

9. List the elements in the set

$$\left\{-3,-2.1,0,\frac{1}{2},0.\overline{3},5,1.202002000\ldots\right\}$$

real numbers

10. Plot the points in each set on a real

$$\left\{-2,0,\frac{1}{2},5.2\right\}$$

11. Determine whether the statement is true or false

$$-3<-7$$

12. Determine whether the statement is true or false

$$-1 \geq -8$$

13. Replace the ? with the correct symbol: >, <, =

$$-9 \,?\, -2$$

14. Replace the ? with the correct symbol: >, <, =

$$\frac{2}{5} \,?\, \frac{1}{3}$$

15. Evaluate each expression

$$|7|$$

16. Evaluate each expression

$$\left|\frac{-2}{3}\right|$$