

The set of Natural numbers is denoted by  $\mathbb{N}$ .

The set of Integers is denoted by  $\mathbb{Z}$ .

The set of Real numbers is denoted by  $\mathbb{R}$

Graph  $y = \frac{x}{3x^2+x+1}$ .

1. Describe a real-world situation that could be represented by the equation  $a = b + 3$ . Include a definition for each variable.
2. Explain the difference between  $-3^2$  and  $(-3)^2$  in terms of order of operations.