

**Example 1:**

The difference of two integers is 5. The sum of their triple is -27. What are the two integers?

**Example 2:**

The sum of two integers is twelve. The sum of their reciprocals is  $\frac{-4}{15}$ . What are the two integers?

**Example 3:**

The sum of the reciprocals of two consecutive even numbers is  $\frac{25}{312}$ . Determine the two numbers algebraically and graphically. Sketch the graph of your solution.