

Task. Find the next two numbers -3, 9, -27, 81

Solution. First we should find the law for these numbers.

Notice that

$$\frac{9}{-3} = \frac{-27}{9} = \frac{81}{-27} = -3.$$

In other words each number is obtained by multiplication of the previous number by -3 .
Therefore the next two numbers are

$$81 * (-3) = -243$$

and

$$-243 * (-3) = 729.$$

Answer. -243, 729.