To find the vertical asymptote : We must set the denominator equal to 0 and solve:

v+3=0 v=-3 There is a vertical asymptote at v=-3

To find the horizontal asymptote :
First we must compare the degrees of the polynomials.

In the denominator, the coefficient of the highest term is an understood $1.\,$

Both the numerator and denominator are 1st degree polynomials. Since they are the same degree, we must divide the coefficients of the highest terms. In the numerator, the coefficient of the highest term is 1

The horizontal asymptote is at c=1To find the oblique asymptote :
Since the degrees of the numerator and the denominator are the same, this rational does not have an oblique asymptote

