To find the vertical asymptote : We must set the denominator equal to 0 and solve: n + 2 = 0

n=-2There is a vertical asymptote at n=-2

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

Both the numerator and denominator are $\mathtt{1}^{\mathsf{st}}$ 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 5 In the denominator, the coefficient of the highest term is an understood $1.\,$ The horizontal asymptote is at k=5To find the oblique asymptote :

Since the degrees of the numerator and the denominator are the same, this rational does not have an oblique asymptote 10

5

10

5

-5