■.

It so happens that this function can be simplified as:

 $h(n) = \frac{-20 + n + n^2}{5 \cdot n}$ $=\frac{(n-4)(n+5)}{n+5}$ =n - 4 To find the vertical asymptote : There is no vertical asymptote To find the horizontal asymptote : First we must compare the degrees of the polynomials. The numerator contains a 2nd degree polynomial while the denominator contains a 1st degree polynomial. Since the polynomial in the numerator is a higher degree than the denominator, there is no horizontal asymptote. To find the oblique asymptote : we must divide the numerator by the denominator and so the oblique asymptote g=n - 410 5 -5 5 10 -10-10

-15

-20