It so happens that this function can be simplified as:

 $n(t) = \frac{-15+7t+2t^2}{}$ $=\frac{(t+5)(2t-3)}{}$

To find the vertical asymptote : There is no vertical asymptote

=2t-3

-15

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 d=2 t - 330 h 20 10 -5 -105 10 -10-20

-30