5.

=4 c - 5

-15

-10

 $p(C) = \frac{-25+5c+12c^2}{5+3c}$ $= \frac{(3c+5)(4c-5)}{3c+5}$

It so happens that this function can be simplified as:

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

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 $w=4\ c-5$

5

10

15

20

-20

-40

-60

-5

denominator contains a 1st degree polynomial.