Section 4.8: contd

Monday, February 02, 2015 1:09 PM

oblique (slant) asymptotes:

$$f(x) = \frac{p(x)}{Q(x)}$$

does
$$g(x) = \frac{2x^2 + 3}{x + 1}$$

have an oblique asymptote?

yes!

$$\begin{array}{r} 3x - 2 \\ 2x^{2} + 0x + 3 \\ 2x^{2} + 2x \\ -3x + 3 \\ -2x - 2 \\ \end{array}$$

$$g(x) = \frac{2x^2+3}{x+1} = 2x-2 + \frac{5}{x+1}$$

as X -> 00, this term gets very smell i. do long division equation of asymptote

y = quahent

and don't worry about remainder

for this example y=2x-2