Polynomials Cover Page; What I know and can do

Question	First Day	Last Day
What is a polynomial?		P(x) = a x2 + bx + (
		anythy that is im
		of powers of x (no negative or not whole #
What does the function $p(x) = -(x+1)^3(x-2)^2$ look like?		T :
(solving)		(0,-4)
How does long division work?		$\frac{\chi^3+3}{\chi-1} \Rightarrow \chi^2+$
		$\frac{60+7}{5} \Rightarrow 12+1+\frac{2}{5}$
		in whole parts until you have a renauder.
What is the remainder when $x^5 - x^3 + 2x - 3$ is divided		
by $x + 1$?		(-1) 5 - (-1) 3 +2(+1) -3 -(+1-2-3 \(\frac{4}{5}\)
		-1+1-2-3 =-5
(reasoning)		
What is an asymptote?		restrailly a point of the discontinuity close to and horizontally the point a trend as

What does the function $\frac{(x+3)^2(x+1)(x-4)}{x^2(x+1)(x-2)}$ Look like?	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(solving)	; •
Why can we cross a horizontal asymptote but not a vertical asymptote?	Horisontal asymptotes are trends as x 300 and NOT a discont.
	But vertical asymptote are places where we
	have a discont.