

Question 7 a)

(% i2) $f(x):=(3*x+15*x^2-x^4)/(9*x^2+1);$

(% o2) $f(x) := \frac{3x + 15x^2 - x^4}{9x^2 + 1}$

(% i3) $f(1);$

(% o3) $\frac{17}{10}$

(% i5) $\text{plot2d}([f(x)], [x, -5, 5], [y, -1, 2],$
 $\text{plot_format, xmaxima},$
 $\text{gnuplot_postamble, "set zeroaxis;"})]\$$

plot2d : expression evaluate on non-numeric values somewhere in plotting range.