OBLIQUE ASYMPTOTES

For each of the following functions find the oblique asymptote if any, and calculatate the position of the curve with respect to all the asymptotes, then SKETCH the INFINITE BRANCHES and the ASYMPTOTES according to the chart.

USE THE BLANK SPACES TO SHOW ALL your CALCULATIONS

(a)	f(x) = x + 1 +	_2
(a)	J(x) = x + 1 +	x-1

х	- ∞	+ ∞
limits of f		

Asymptotes and relative positions <u>calculations</u>

Sketch of the infinite branches only

(b)
$$f(x) = \frac{2x^2 + 4x - 1}{x - 2}$$

Х	- ∞	$+\infty$
limits of f		

Asymptotes and relative positions <u>calculations</u>

Sketch of the <u>infinite branches only</u>

(c)
$$f(x) = \frac{2x^3 - x^2 + 2}{(2x - 3)^2}$$

х	- ∞	$+\infty$
limits of f		

Asymptotes and relative positions <u>calculations</u>

Sketch of the <u>infinite branches only</u>

(e)
$$f(x) = \frac{x^2 + 4x}{\sqrt{|x^2 + 4x + 1|}}$$

х	- ∞	$+\infty$
limits of f		

Asymptotes and relative positions <u>calculations</u>

Sketch of the infinite branches only

(f)
$$f(x) = x\sqrt{\frac{1-x}{1+x}}$$

X	- ∞	$+\infty$
limits of f		

Asymptotes and relative positions <u>calculations</u>

Sketch of the <u>infinite branches only</u>