$$\begin{array}{ll}
4. & \lim_{\chi \to 2} (\chi - 2) = 0 \\
\chi \to 2 & \\
\chi > 2
\end{array}$$

2.
$$x-2>0 \iff x>2$$

Donc $x-2$ est positif sur]2;+ ∞ [

3.
$$\lim_{x\to 2} f(x) = \frac{5}{0} = +\infty$$

1.
$$\lim_{x \to -\infty} f(x) = \lim_{x \to -\infty} \frac{2x}{x} = \lim_{x \to -\infty} 2 = 2$$

2.
$$x+1>0 \implies x>-1$$

$$x+1 = \text{st negatif sur } I$$

3.
$$\lim_{x\to -1} f(x) = \frac{2 \times (-1) - 3}{-1 + 1} = \frac{-5}{0} = +\infty$$

1.
$$\lim_{x\to +\infty} f(x) = \lim_{x\to +\infty} \frac{x^2}{x} = \lim_{x\to +\infty} x = +\infty$$

2.
$$\lim_{x\to 3} f(x) = \frac{3^2+1}{3-3} = \frac{10}{0} = +\infty$$
 $x \to 3$
 $x \to 3$
 $x \to 3$
 $x \to 3 = x \to 3 \to 0$

$$\lim_{x \to 1} f(x) = \frac{1+2}{1-1} = \frac{3}{0} = -\infty$$

$$\lim_{x\to -1} f(x) = \frac{-1+2}{1-1} = \frac{1}{0} = -\infty$$