${\bf Compl\'eter}:$

1)
$$f(x) \sim_a g(x) \Leftrightarrow \lim_{x \to a} \frac{f(x)}{g(x)} = 1$$
2)
$$\lim_{x \to +\infty} \frac{-3x+1}{-2x^2 - 4x + 5} = 0$$
3)
$$\lim_{x \to -\infty} \frac{4x^3 - x^2 + 1}{5x^2 - x + 2} = -\infty$$

| 4) | $\sin(x)$ | en $x = 0$ | $oxed{x}$ |
|-----|--------------------------------------|------------------------|---------------------|
| 5) | $\ln(1-x^3)$ | en x = 0 | $-x^3$ |
| 6) | $\sqrt[3]{1+x}-1$ | en x = 0 | $\frac{1}{3}x$ |
| 7) | $e^{rac{1}{x}}$ | en $x = +\infty$ | $1+\frac{1}{x}$ |
| 8) | $\tan\left(x - \frac{\pi}{4}\right)$ | $en x = \frac{\pi}{4}$ | $x - \frac{\pi}{4}$ |
| 9) | $2x^5 + x^4 - x^3$ | en x = 0 | $-x^3$ |
| 10) | $3x^4 - 4x^2 + x$ | $en x = +\infty$ | $3x^4$ |