Calculer la limite de f en a

$f(x) = 2x + \sin x$ $a = +\infty$, $a = -\infty$

$f(x) = x^3(\cos(x) + 2)$ $a = +\infty$, $a = -\infty$

$f(x) = \dfrac{\sqrt{x-1}}{x-1}$ $a = 1$, $a = +\infty$

$f(x) = \dfrac{\sqrt{|x-1|}}{x-1}$ $a = 1$, $a = +\infty$, $a = -\infty$

$f(x) = \dfrac{x^2}{3 + 2\sin(x)}$ $a = +\infty$

$f(x) = \dfrac{x + \sin(x)}{3 + 2\sin(x)}$ $a = -\infty$

$f(x) = x^2 \sin\left(\dfrac{1}{x}\right)$ $a = 0$, $a = +\infty$

$f(x) = \sqrt{x}\, \sin\left(\dfrac{1}{x^2}\right)$ $a = 0$

$f(x) = \dfrac{x}{2} - 3\sqrt{x}$ $a = +\infty$

$f(x) = \dfrac{x - 2\sqrt{x}}{3x - 1}$ $a = +\infty$ $a = \dfrac{1}{3}$

$f(x) = \sqrt{4x^2 - 2} - 2x$ $a = +\infty$

$f(x) = \sqrt{4x^2 + x} - 2x$ $a = -\infty$